

Kaspersky Anti-Virus

for Mac

USER GUIDE

PROGRAM VERSION: 8.0 CRITICAL FIX 2



KASPERSKY

Dear User!

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Revision date: 11/30/09

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KASPERSKY ANTI-VIRUS

Kaspersky Anti-Virus for Mac (hereinafter referred to as Kaspersky Anti-Virus) is the new generation of information protection solutions. It is designed to protect computers managed by Mac OS against viruses and malware. The following functions are implemented in the application:

- Real-time protection of your computer's file system, through: interception and analysis of attempts to access the file system; disinfection, deletion and isolation of potentially infected objects for further analysis.
- Searching and deactivating malicious code at the user's request: search and analysis of infected and potentially infected objects in the designated scan areas; disinfection, deletion, or isolation of objects for further analysis.

The most useful virus scan tasks are included in the Kaspersky Anti-Virus package: full computer scan and quick scan of critical areas.

- Updating the databases and modules of Anti-Virus from Kaspersky Lab's update servers, creating backup copies of all the updated files to allow a future roll back; copying the updates into a local source to allow other networked computers to access them so as to reduce Internet traffic.
- Quarantining potentially infected objects: saving potentially infected objects in the quarantine folder, re-scanning them with updated databases, restoring objects from quarantine at the user's request.
- Creating a copy of each infected object to store in the backup area before disinfecting or deleting it, so that it can later be restored, preserving your valuable information.
- Creating a detailed report on the performance of each Kaspersky Anti-Virus component.
- Notifying the user about certain events which occur when Kaspersky Anti-Virus runs. You can select the notification type for each event type: sound or pop-up message.

Kaspersky Anti-Virus boasts an easy-to-use interface, which ensures convenient access to any of the application's features. You can change the appearance of Kaspersky Anti-Virus by using various graphic elements and selected color schemes.

When working with Kaspersky Anti-Virus, you will be provided with complete information support: the application returns messages on the protection status and offers detailed guidance. Security Assistant (see section "What is the protection status of your computer?" on page [18](#)) included in the application package can present a broad picture of current status of computer's protection, and proceed to the immediate elimination of problems.

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HARDWARE AND SOFTWARE SYSTEM REQUIREMENTS

Your computer should meet the following minimum requirements for Kaspersky Anti-Virus to run properly:

- Intel-based Macintosh computer (PowerPC processor not supported);
- 512 MB free RAM;

- 80 MB free hard drive space;
- Mac OS X 10.4.11 operating system, or higher.

DISTRIBUTION KIT

You may purchase Kaspersky Anti-Virus (box edition) from our distributors or at an online store (such as www.kaspersky.com, eStore section).

If you are purchasing the product in a box, the following will be included in the software product distribution kit:

- sealed envelope with the Installation CD that stores product files and documentation in PDF format;
- license agreement, which specifies the conditions of using the software product you have purchased.

Before breaking the seal on the installation disk envelope, carefully read through the EULA. If you cannot accept the provisions of the License Agreement, you may return the box with the product to the distributor you have purchased it from, and you will be refunded the sum you have paid for the product. In this case, the envelope with the installation CD should remain sealed. Opening the envelope with the installation CD means acceptance of all the provisions of the License Agreement.

When purchasing Kaspersky Anti-Virus online, you download the product from Kaspersky Lab website, which includes this documentation. You will be sent a key file or activation code by email once payment has been made.

SERVICE FOR REGISTERED USERS

Kaspersky Lab offers a broad range of services allowing legal users to increase the efficiency of the application.

After purchasing the license you become a registered application user, so you can be provided the following services until the license key expiration date:

- Hourly update of application databases and provision of new versions of the software.
- Consultation on issues regarding installation, configuration and use of the software product provided by phone and email.
- Notification of new software products release by Kaspersky Lab and of new viruses emerging all around the world. This service is provided to users who have subscribed to Kaspersky Lab's news mail delivery at the Technical Support Service website <http://support.kaspersky.com/subscribe/>.

Support on issues related to the performance and use of operating systems, third-party software and the operation of other technology is not provided.

OBTAINING INFORMATION ABOUT THE APPLICATION

If you have any questions concerning the purchase, installation or use of Kaspersky Anti-Virus, answers are readily available.

Kaspersky Lab provides a variety of information sources about the application. You can choose the most suitable, according to the importance and urgency of your question.

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SOURCES OF INFORMATION TO RESEARCH ON YOUR OWN

You can refer to the following sources of information about the application:

- Page at the Kaspersky Lab website.
- Page at the Technical Support Service website (Knowledge Base).
- Kaspersky Lab products users forum.
- Help system.
- Documentation.

Page on the Kaspersky Lab website

This page (<http://www.kaspersky.com/kaspersky-anti-virus-for-mac>) will provide you with general information on the application, its features and options. You can purchase Kaspersky Anti-Virus or extend your license in our eStore.

Application page on the Technical Support Service website (Knowledge Base)

Knowledge Base is a separate section of the Technical Support Service website (<http://www.kaspersky.com/support/kavmac>), which provides recommendations for working with Kaspersky Lab's products. This page contains articles published by Technical Support service specialists.

These articles provide useful information, recommendations and answers to frequently asked questions related to the purchase, installation and use of Kaspersky Anti-Virus. These answers are grouped by topics, for example, "Working with key files", "Updating the databases", or "Troubleshooting". The articles may answer questions, which are related not only to Kaspersky Anti-Virus but also to other Kaspersky Lab products; they also may contain Technical Support service news.

To switch to Knowledge Base, open the main application window (on page [13](#)), click the  button and in the window that opens, use the **Technical Support Service** button.

Users forum

If your question does not require an urgent answer, you can discuss it with Kaspersky Lab's specialists and other users in our forum (<http://forum.kaspersky.com>). It is also made into a separate section at the Technical Support service website and contains Kaspersky Anti-Virus users' questions, feedback, and requests.

In this forum you can view existing topics, leave your comments, create new topics, and use the search engine.

To go to this resource, open the main application window (on page [13](#)), click the  button and in the window that opens, use the **Forum** button.

Help system

The complete Help system contains information on how to manage computer protection: view protection status, scan various areas of the computer for viruses, and execute other tasks. To open the help file, select the

Help → Kaspersky Anti-Virus Help System command in the Kaspersky Anti-Virus main menu, or click the  button in the main application window (on page [13](#)).

If you have any questions regarding a separate window or tab of Kaspersky Anti-Virus, you can refer to the context help. To open the context help, open the window or the tab you want, and press the  button.

Documentation

The user guide for Kaspersky Anti-Virus contains detailed information on installing and using the application.

If you do not find a solution to your problem in the Knowledge Base, the Users forum, the help system or documentation, we recommend that you contact Kaspersky Lab Technical Support (see section "Contacting Technical Support" on page [9](#)).

CONTACTING TECHNICAL SUPPORT

If you have already purchased Kaspersky Anti-Virus, you can obtain information about it from the Technical Support Service, either by phone or through the Internet. Technical Support Service specialists will answer your questions on installing and using the application, and if your computer has been infected, they will help you overcome the effects of malware.

To view information on ways of receiving support for Kaspersky Anti-Virus, open the main application window (on page [13](#)) and click the  button. Before contacting Technical Support Service, please read the support rules (<http://support.kaspersky.com/support/rules>).

If problems occur when using Kaspersky Anti-Virus, first check if troubleshooting instructions for the problem are provided in this documentation, help system, in the Knowledge Base on the Kaspersky Lab Technical Support website or on the Users Forum (see section "Sources of information to research on your own" on page [8](#)). If you do not find a solution to your problem, we recommend that you contact Kaspersky Lab Technical Support.

Please note that you have to be a registered user of the commercial version of Kaspersky Anti-Virus to obtain technical support. No support is provided to users of trial versions.

A new user is registered using the Activation assistant (see section "License management" on page [72](#)), if you are activating Kaspersky Anti-Virus using the activation code. Under this option, once registration is complete, a customer ID will be assigned to you. Customer ID is a personal user ID, which is required for phone or web form-based technical support.

If you are activating the Kaspersky Anti-Virus using a key file, you have to pass the registration procedure at the Technical Support Service website.

The customer ID and password received when registering are needed to access your Personal Cabinet, your own section at the Technical Support service website. In the Personal Cabinet you can:

- Send requests to the Technical Support without prior registering.
- Exchange messages with the Technical Support without using email.
- Monitor requests in real time.
- View the complete history of your requests to the Technical Support service.
- Obtain a backup copy of the key file.

Requesting the Technical Support service by email

To contact Technical Support Service, open the web form of the customer request processing system Helpdesk (<http://support.kaspersky.com/helpdesk.html>). On the Technical Support Service page that opens, enter your Personal Cabinet and fill in the request form.

You can send your question in Russian, English, German, French, or Spanish.

In order to send your question by email, specify the **Customer ID** obtained when registering at the Technical Support service website, along with your **password**.

A Technical Support service specialist will reply to your request in your Personal Cabinet and at the email address you have specified in your request.

Describe the problem you have encountered in the request web form providing as much detail as possible. Specify the following in the required fields:

- **Request type.** Select the subject that best matches the problem you have encountered, such as "Product installation/uninstallation problem" or "Virus scan/removal problem". If you have not found an appropriate topic, select "General question".
- **Application name and version number.**
- **Request text.** Describe the problem in as much detail as possible.
- **Customer ID and password.** Enter the customer ID and the password you received when registering at the Technical Support service website.
- **Email address.** The Technical Support service will send an answer to your question at this email address.

Phone technical support

If you encounter an urgent problem, you can always call your local Technical Support service. Before contacting specialists of the Russian (http://support.kaspersky.ru/support/support_local) or international (<http://support.kaspersky.com/support/international>) Technical Support, please, collect information (<http://support.kaspersky.com/support/details>) about your computer and anti-virus application installed on it. This will help our support specialists solve your problem more quickly.

CONTACTING SALES DEPARTMENT

If you have questions about selecting or purchasing the application or extending your license, contact the Sales Department specialists by email at sales@kaspersky.com.

INSTALLING AND REMOVING KASPERSKY ANTI-VIRUS

The Kaspersky Anti-Virus installation package includes the installation assistant and the uninstallation assistant.

► *To install Kaspersky Anti-Virus on your computer,*

run the installation file (*.dmg) and select **Anti-Virus Installation**.

The installation assistant is a sequence of steps. You can switch between them using the **Continue** (go to the next step of installation) and **Go Back** (go one step back) buttons. Let us take a closer look at the steps of installation:

1. Reading important information.

Please read the information about the application you are installing and make sure that your computer meets the system requirements specified. To print the information, click the **Print** button. To save the information as a text file, click the **Save** button.

2. Reading License Agreement.

Please thoroughly read through the License Agreement for using Kaspersky Anti-Virus between you and Kaspersky Lab. The text of the agreement is available in several languages.

To print the text of the agreement, click the **Print** button. To save the agreement as a text file, click the **Save** button.

If you accept all the terms of the agreement, click the **Continue** button and confirm that you accept the terms of license agreement in the window that opens. Kaspersky Anti-Virus installation will continue.

To return to the text of the license agreement, click the **Read license** button.

If the **Disagree** option is selected, installation will be interrupted.

3. Change install location.

This window contains the information about the disk, on which the application is to be installed, and the free disk space needed for the installation.

If default settings of the installation meet your requirements, click the **Install** button and enter the administrator's password to confirm the installation.

You can edit the default installation settings. To do this, click the **Edit installation folder** button and specify another disk. To switch to custom installation of Kaspersky Anti-Virus, click the **Preferences** button.

4. Selecting installation type.

This step of the installation assistant will appear if the custom installation option is selected. You will be offered to specify which application components should be installed on your computer.

- **Virus scan.** Scan of objects from the user defined scan scopes. Please note that this component will be unconditionally installed.
- **File Anti-Virus.** Real-time scan of all objects being opened, executed or saved.
- **Finder Contextual Menu.** Scan of objects displayed in Finder. Scan is started from the object contextual menu.

Once the components are selected, please click the **Install** button and enter the administrator's password to confirm the installation.

To restore the default installation settings, click the **Standard installation** button.

5. Completing the installation.

The last window of the installation assistant displays information about the successful completion of the installation process. To exit the installation assistant, click the **Close** button.

When the installation assistant is closed, Kaspersky Anti-Virus runs automatically. The computer does not need to be restarted.

► *To remove Kaspersky Anti-Virus from your computer,*

run the installation file (*.dmg) and select the **Kaspersky Anti-Virus Uninstaller** assistant.

The uninstallation assistant is a sequence of steps. You can switch between them using the **Continue** (go to the next step of installation) and **Go Back** (go one step back) buttons. Let us take a closer look at the application uninstallation procedure:

1. Reading important information.

Note that removing Kaspersky Anti-Virus exposes your computer to the risk of infection.

It is recommended that you process all objects stored in quarantine and backup, before starting the uninstallation procedure. All stored objects that have not been processed will be deleted without any opportunity to restore them in the future.

To start the uninstallation procedure, click the **Delete** button and enter the administrator's password to confirm. The application will then be uninstalled.

2. Completing the uninstallation procedure.

The last window of the uninstallation assistant displays the information about the successful completion of the uninstallation process. To exit the uninstallation assistant, click the **Finish** button. The computer does not have to be restarted after the uninstallation.

APPLICATION INTERFACE

Kaspersky Anti-Virus has a simple and easy-to-use interface. In this section we will take a closer look at its basic elements: main application window, application settings window and the Kaspersky Anti-Virus icon.

You can change the appearance of the application by using various graphic elements and selected color schemes.

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MAIN APPLICATION WINDOW

The basic functions of the main window (see the figure below) are: to inform the user of the computer's protection status and of possible problems with protection, to provide information about the operation of Kaspersky Anti-Virus' components (File Anti-Virus, virus scan and update tasks), and to provide access to the main tasks and the application settings window.



Figure 1: Kaspersky Anti-Virus main window

The color of the main window indicates the current protection status. There are three possible values of the protection status (see section "What is the protection status of your computer?" on page [18](#)), each of which is associated with a stop light color. Green indicates that your computer's protection is at an optimal level, while yellow and red warn of the

presence of various problems in the operation or configuration of the application. For more detailed information on these problems and their quick elimination, use the Security Assistant (see section "What is the protection status of your computer?" on page [18](#)) that opens when you click on the color indicator.

In addition to the color indicator, the left part of the main window contains a block of text which describes the protection status, and lists any security threats logged by the Security Assistant. If you have virus scan or update tasks running at this time, information on their progress (as percentage completion) will also be displayed in the left part of the main window.

The lower part of the window displays summary statistics on the operation of File Anti-Virus, and information about the databases being used by the application.

From the main window you can start the Kaspersky Anti-Virus update, modify settings for virus scan tasks in specified areas and run them, and manage the licenses. To do this, use these buttons:



Run Kaspersky Anti-Virus updater. This opens a report window with detailed information about the task's execution.



Go to virus scan tasks: quick scan, full scan and scan for viruses in the user defined scope.



Switch to managing the licenses, needed to enable Kaspersky Anti-Virus. You can view information on the current license key files, delete keys, and install new ones.

The navigation bar is located in the upper part of the main window, and contains the following buttons:



Open the window which displays the report about the operation of Kaspersky Anti-Virus, to access quarantine and Backup.



Open the application settings window (on page [15](#)).



Open the Kaspersky Anti-Virus built-in help.



Open the window with information on ways of obtaining technical support.

APPLICATION SETTINGS WINDOW

Kaspersky Anti-Virus settings window (see the figure below) may be accessed from the main window (see section "Main application window" on page [13](#)), by clicking the  button, or by selecting **Preferences** from the application menu, which will open if you click the Kaspersky Anti-Virus icon (on page [15](#)) in Dock or Mac OS Menu Bar.

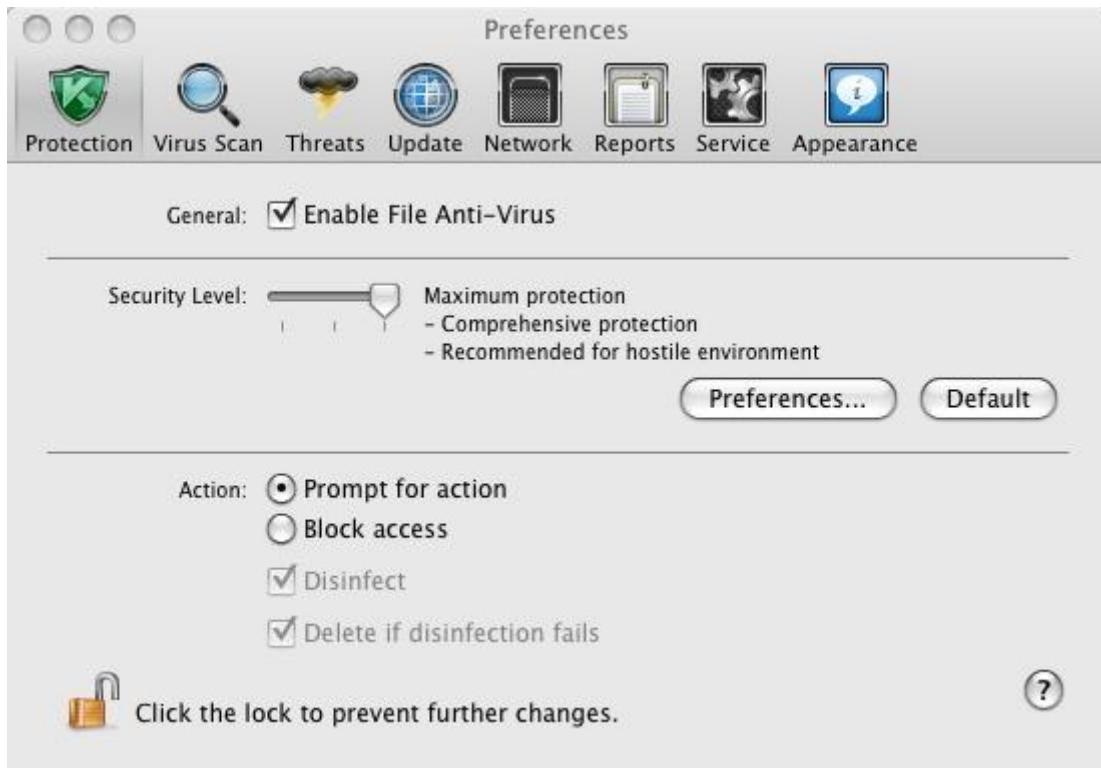


Figure 2: Application settings window. File Anti-Virus

The buttons in the upper part of the settings window give you quick access to the settings of File Anti-Virus, of virus scan tasks, of updates, and of Kaspersky Anti-Virus tools. To fine-tune certain settings, you will need to open the second- and third-level settings windows.

To prevent users without administrator privileges from editing Kaspersky Anti-Virus settings, click on the lock icon in the lower part of the window. You will need to enter the administrator's username and password to access the settings.

The  button provides access to Kaspersky Anti-Virus help system with the description of settings for the current application window.

KASPERSKY ANTI-VIRUS ICON

Immediately after Kaspersky Anti-Virus is installed, its icon appears in the Mac OS Menu Bar. The icon is in itself an indicator for the application's operation mode. If the icon is active, this means that the computer protection against malware in real-time mode is enabled. The inactive icon indicates that the protection is disabled. Additionally, the icon provides access to the commands in Kaspersky Anti-Virus' main menu.

By default, the icon is located on the Mac OS Menu Bar. You can change the icon's location by replacing it onto the Dock.

► *To move the application icon onto the Dock:*

1. Open the application settings window (on page [15](#)) and select the **Appearance** section (see figure below).

2. In the **Show application icon** section select the **In Dock** option. Note that this modification will take place only after Kaspersky Anti-Virus is restarted.

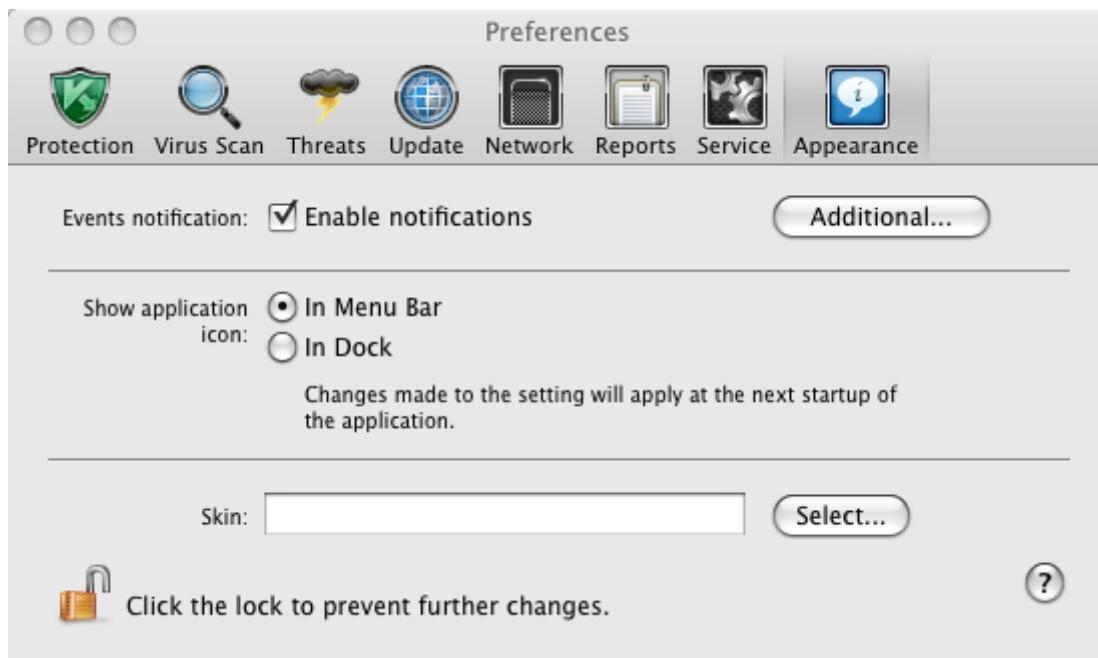


Figure 3: Application settings window. Appearance

If you selected the option of displaying application icon in MAC OS menu bar, the icon will not appear in Dock when the application is started or main window is opened.

CONFIGURING THE KASPERSKY ANTI-VIRUS INTERFACE

Kaspersky Anti-Virus gives you the option of changing the appearance of the program by creating and using various graphic elements and selected color schemes.

► *To configure Kaspersky Anti-Virus*

open application settings window (on page [15](#)) and select the **Appearance** tab (see figure below).

All the colors, fonts and icons used in the Kaspersky Anti-Virus interface can be changed. You can create your own skins for the application, or localize it in another language. To activate a skin, specify the path to the folder in the **Skin** field. To select a folder, use the **Select** button.

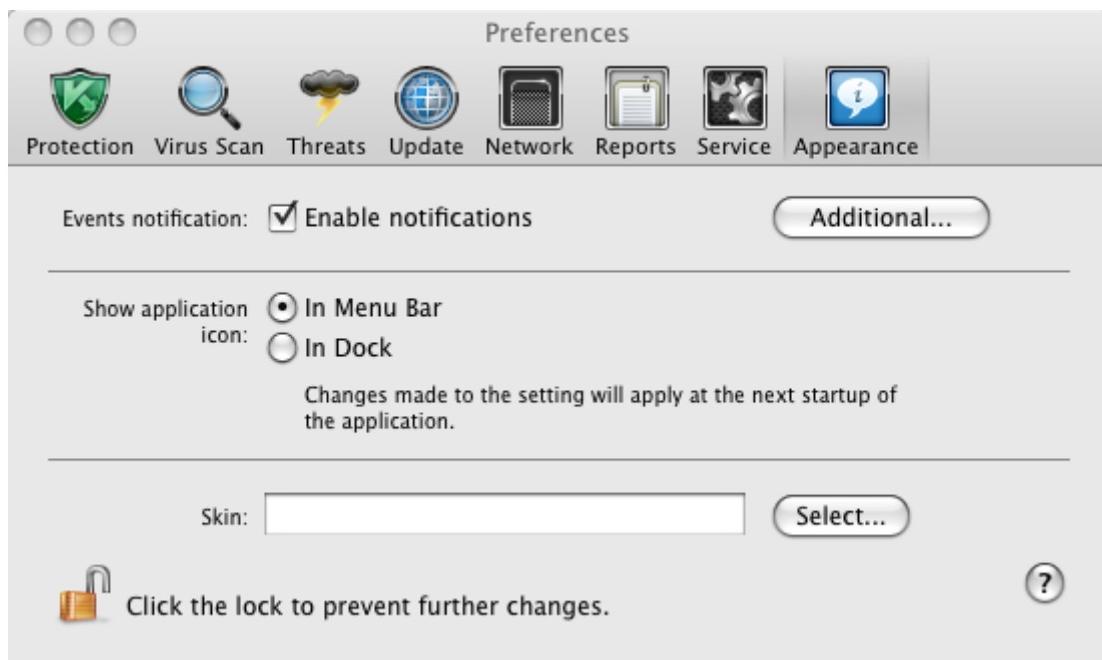


Figure 4: Application settings window. Appearance

Modifications applied to the Kaspersky Anti-Virus interface settings are not saved if you restore default settings or uninstall the application.

QUICK START

One of the main goals of Kaspersky Lab specialists when they designed the application was to ensure optimum configuration of Kaspersky Anti-Virus to provide your computer with protection immediately after the installation.

You are advised to perform the following actions after completing the installation and starting the application on your computer:

- Activate your copy of Kaspersky Anti-Virus (see section "License management" on page [72](#)). Using a licensed version will let you update the application's databases on a regular basis, and access the Technical Support Service.
- Evaluate the current protection status (see section "What is the protection status of your computer?" on page [18](#)), to make sure that Kaspersky Anti-Virus ensures the appropriate level of protection.
- Update Kaspersky Anti-Virus (see section "How to update the application" on page [21](#)). Kaspersky Anti-Virus databases should be kept up to date so that they are always ready to help detect and eliminate viruses or other malware.
- Scan your entire computer (see section "How to Scan Your Computer for Viruses" on page [20](#)) for viruses.

If problems or errors occur in the application's operation, please view the report (see section "Reports" on page [81](#)), which may indicate the cause of failure. If you cannot solve the problem on your own, please contact Kaspersky Lab's Technical Support Service (see section "Contacting Technical Support" on page [9](#)).

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WHAT IS THE PROTECTION STATUS OF YOUR COMPUTER?

Your computer's protection status gives you a summary of your computer's overall security level. These threats include malicious programs detected and outdated application databases, disabled File Anti-Virus, using minimum settings for the Kaspersky Anti-Virus operation, etc.

Protection status is displayed in the main application window (see section "Main application window" on page [13](#)) and is depicted by the corresponding stop light color. Depending on the situation, the color scheme of the window will change, and if any security threats are detected the color will be supplemented by informative messages.

The Traffic Light Colour can be:

- **Green.** This status indicates that your computer is properly protected.

This means that the databases are updated, File Anti-Virus is enabled, Kaspersky Anti-Virus is running with the settings recommended by Kaspersky Lab, and either no malicious objects have been discovered by a virus scan, or all detected malicious objects have been disinfected.

- **Yellow.** Your computer's protection is below the previous level. This protection status indicates that there are problems in the performance or settings of Kaspersky Anti-Virus.

Such problems include, for example: slight deviations from the recommended operation settings, or the Kaspersky Anti-Virus databases have not been updated for several days.

- **Red.** Your computer is at serious risk of infection. This status indicates that there are problems which may lead to the infection of your computer and the loss of data.

Such problems include, for example: a failure in File Anti-Virus' operation; the Kaspersky Anti-Virus databases have not been updated for a long time; malicious objects have been detected and urgently need to be disinfected, or the application has not been activated.

If there are problems in the protection system, you are advised to fix them immediately. To do this, use the Security Assistant (see the figure below), which opens if you click on the color indicator in the main window. The Security Assistant lets you review all the current threats and begin to eliminate them.

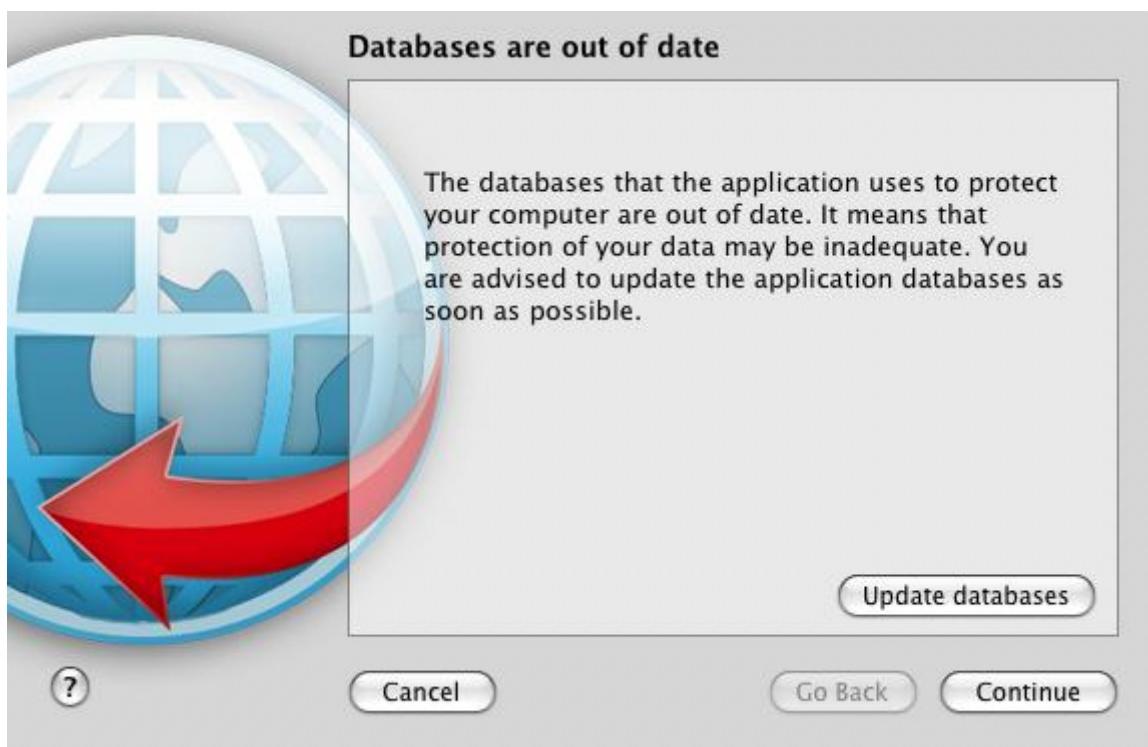


Figure 5: Security Assistant interface

To browse the list of existing threats, click the **Continue** or **Go Back** buttons. A detailed description is provided for each threat, and the following actions are available:

- Eliminate threat immediately.

To eliminate the threat, click the button with the recommended action. For example, if infected objects were detected, the recommended action will be **Disinfect infected objects**, if databases are obsolete, the recommended action will be **Update databases**. To obtain detailed information on this threat, you can view the report file (see section "Reports" on page [81](#)).

- Postpone threat elimination.

If for any reason you cannot immediately eliminate the threat, you can postpone this action and return to it later. To do this, use the **Postpone** button. Note that the second option is not available for serious threats. Such threats include, for example, malicious objects not yet disinfected, File Anti-Virus operation failure, or corrupted Kaspersky Anti-Virus database files.

If you still have threats left after you have finished using the Security Assistant, the main window color will indicate security problems. If you postpone the elimination of some threats, they will not be present in the list of active threats the next time Security Assistant is opened. However, you can still return to view and eliminate postponed threats by clicking the **View postponed threats** button in the last window of the Security Assistant.

HOW TO SCAN YOUR COMPUTER FOR VIRUSES

When installation is complete, Kaspersky Anti-Virus will notify you that the full computer scan has not yet been performed, and will advise you to run the Full computer scan task immediately.

- ▶ *To open the Full computer scan task:*

1. Open the main application window (on page [13](#)) and click the  button.



2. Run the  **Full Scan** task. To view task execution results, open report window (see section "Virus scan statistics" on page [59](#)).

- ▶ *To view or edit current task settings:*

1. Open the application settings window (on page [15](#)) and select the **Virus Scan** tab.
2. Select the **Full Scan** task in the dropdown list on the left. In the right-hand part of the window edit the list of objects to scan (see section "Creating the list of objects to scan" on page [45](#)), view the settings that will be used for a task: security level (see section "Selecting a security level" on page [48](#)) and action (see section "Selecting actions on objects" on page [52](#)), that will be taken on dangerous objects. If required, configure a task launch schedule (see section "Configuring the scan task schedule" on page [54](#)).

HOW TO PERFORM A QUICK SCAN OF YOUR COMPUTER

Some areas on your computer are critical for security, such as the folders that contain operating system files and system libraries. These areas are the main targets for malware which aims to damage your computer.

It is extremely important to protect these critical areas of your computer to ensure that it keeps running. For your convenience, we have created a dedicated virus scan task for these areas.

- ▶ *To open the quick computer scan task:*

1. Open the main application window (on page [13](#)) and click the  button.



2. Start the  **Quick Scan** task. To view task execution results, open report window (see section "Virus scan statistics" on page [59](#)).

- ▶ *To view or edit current task settings:*

1. Open the application settings window (on page [15](#)) and select the **Virus Scan** tab.
2. In the list on the left, select the **Quick Scan** task. In the right-hand part of the window edit the list of objects to scan (see section "Creating the list of objects to scan" on page [45](#)), view the settings that will be used for a task: security level (see section "Selecting a security level" on page [48](#)) and action (see section "Selecting actions on objects" on page [52](#)), that will be taken on dangerous objects. If required, configure a task launch schedule (see section "Configuring the scan task schedule" on page [54](#)).

HOW TO SCAN A FILE, FOLDER OR DISK FOR VIRUSES

It is useful to be able to scan a part of your computer for viruses rather than the entire computer: for example, the hard drive containing applications, games, or email databases which have been transferred from work.

- *To scan an individual object for viruses:*

1. Open the main application window (on page [13](#)) and click the  button.
2. Select the  **Virus Scan** task and in the window that opens, create the list of objects to scan (see section "Creating the list of objects to scan" on page [45](#)). To add the object to the scan scope, drag-n-drop it to the window. To start the task, click the **Start** button. To view task execution results, open report window (see section "Virus scan statistics" on page [59](#)).

- *To view or edit current task settings:*

1. Open the application settings window (on page [15](#)) and select the **Virus Scan** tab.
2. In the list on the left, select the **Virus Scan** task. In the right-hand part of the window view the settings that will be used for a task: security level (see section "Selecting a security level" on page [48](#)) and action (see section "Selecting actions on objects" on page [52](#)) that will be taken on dangerous objects.

If you install an add-in module for the Finder context menu, you can start scan of any object from its contextual menu directly. To do this, select **Scan for viruses** from the menu.

HOW TO UPDATE THE APPLICATION

Kaspersky Lab updates Kaspersky Anti-Virus databases and modules using dedicated update servers. *Kaspersky Lab's update servers* are Kaspersky Lab's Internet sites to which the Kaspersky Anti-Virus updates are uploaded.

You will need an Internet connection to update Kaspersky Anti-Virus from these servers.

By default, Kaspersky Anti-Virus automatically checks for updates on Kaspersky Lab's servers. If a server contains a new set of updates, Kaspersky Anti-Virus will download and install them in the background.

- *To update Kaspersky Anti-Virus,*

 open the main application window (on page [13](#)) and click the  button. As a result, Kaspersky Anti-Virus will start updating.

MULTI-TASKED PROTECTION MANAGEMENT

By default, Kaspersky Anti-Virus starts when the operating system starts and protects your computer during the entire session. File-Anti-Virus' activity is indicated by the Kaspersky Anti-Virus icon (on page [15](#)) in the Dock or in the Mac OS Menu Bar. If the icon is active, your computer's protection is enabled, if the icon is inactive, the protection is disabled.

Kaspersky Lab specialists strongly recommend that you do not disable real-time protection provided by Anti-Virus since this could lead to an infection of your computer and loss of data.

Note that the icon indicates the status of protection provided by File Anti-Virus (see section "Anti-virus protection of your computer's file system" on page [30](#)). Disabling or pausing File Anti-Virus does not impact the execution of virus scan tasks (see section "Scanning for viruses" on page [43](#)) or application updates (see section "Updating the application" on page [61](#)).

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DISABLING COMPUTER PROTECTION

Disabling protection means stopping File Anti-Virus (see section "Anti-virus protection of your computer's file system" on page [30](#)). Virus scan (on page [43](#)) and update (see section "Updating the application" on page [61](#)) tasks will continue to run.

If protection is fully disabled, it can only be re-enabled manually by the user. In this case, File Anti-Virus will not be automatically enabled after the system or Kaspersky Anti-Virus restarts. Note that if Kaspersky Anti-Virus conflicts with other program(s) installed on your computer, you can pause File Anti-Virus or create an exclusion list (see section "Trusted zone creation" on page [27](#)).

► There are several ways to disable computer protection:

- Click the Kaspersky Anti-Virus icon (on page [15](#)) in the Dock or in the Mac OS Menu Bar and select the **Turn Protection Off** command from the menu that opens.

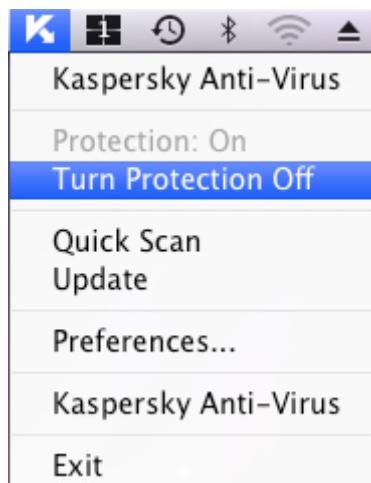


Figure 6: Disabling protection from the contextual menu

- Open the application settings window (on page [15](#)), select the **Protection** tab and uncheck the **Enable File Anti-Virus** box.



Figure 7: Application settings window. File Anti-Virus

RESTORING PROTECTION ON YOUR COMPUTER

If you have paused or fully disabled your computer's protection, you can re-enable it in the following ways:

- From the menu that opens by clicking the Anti-Virus icon (see section "Kaspersky Anti-Virus icon" on page [15](#)) in the Mac OS Menu Bar or in the Dock. To do this, select the **Turn Protection On** item.



Figure 8: Enabling protection from the contextual menu

- From the Security Assistant (see section "What is the protection status of your computer?" on page [18](#)) interface. You significantly increase the risk of infecting your computer if you pause or stop protection, so this threat is immediately logged by the Security Assistant.

EXPORTING AND IMPORTING KASPERSKY ANTI-VIRUS SETTINGS

Kaspersky Anti-Virus allows you to export and import its settings. This is useful if, for example, the application is installed both on your home and office computers. You can configure the application to a convenient mode, save those settings in a special configuration file on a disk, and then import them quickly onto your office workstation. Settings are stored in a special configuration file.

► *To export current application settings:*

- Open the application settings window (on page [15](#)) and select the **Service** section (see figure below).
- In the **Configuration manager** section, click the **Save** button.
- Enter the name of the configuration file and specify a location to save it.

► *To import settings from a configuration file:*

- Open the application settings window (on page [15](#)) and select the **Service** tab (see figure below).

2. In the Configuration manager section click the **Load** button and select the file you want to import Kaspersky Anti-Virus settings from.



Figure 9: Application settings window. Service

EXITING KASPERSKY ANTI-VIRUS

If, for any reason, you need to close Kaspersky Anti-Virus, click the Kaspersky Anti-Virus icon (on page 15) in the Mac OS Menu Bar or in the Dock, and select the **Exit** command in the menu that opens. The application will close, which means that your computer will be running unprotected.

If you have closed Kaspersky Anti-Virus, you can enable the protection of your computer by loading the application manually.

Protection can also be started automatically after restarting your operating system. To enable this mode, open the application settings window (on page 15), select the **Service** section (see figure below) and check the **Launch application at startup** box in the **Autorun** section.



Figure 10: Application settings window. Service

CREATING A PROTECTION SCOPE

Kaspersky Anti-Virus protection scope is defined on the **Threats** tab of the application settings window (see section "Application settings window" on page [15](#)). They include:

- list of threats against which Kaspersky Anti-Virus will ensure the protection;
- list of objects in the trusted area, which will be excluded from protection.

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SELECTING MALICIOUS PROGRAMS TO BE MONITORED

Kaspersky Anti-Virus protects against various types of malware. Regardless of your settings, the application always protects your computer against the most dangerous types of malware such as viruses, Trojans, and hack tools. These programs may cause significant damage to your computer. To achieve a greater level of security for your computer, you can expand the list of threats that the application will detect, so that it will monitor additional types of potentially dangerous programs.

To select which malware types Kaspersky Anti-Virus will protect from, open the application settings window (on page [15](#)) and select the **Threats** tab (see the figure below).

The **Malware categories** section lists threat types, grouped by severity of threat:

- **Viruses, worms, Trojans, hack tools.** This group contains the most common and dangerous categories of malware. This is the minimum admissible security level. In accordance with the recommendations of Kaspersky Lab experts, Kaspersky Anti-Virus always monitors this category of malware.
- **Spyware and Adware.** This group includes potentially dangerous software that could cause inconvenience or significant damage to a user.
- **Auto-dialers.** This group includes programs, which set up hidden dial-up connections, such as adult services auto-dialers.
- **Potentially dangerous software (riskware).** This group includes programs that are not malicious or dangerous, but which under certain circumstances could be used to cause harm to your computer.

The groups listed above govern the complete use of the Kaspersky Anti-Virus databases when scanning objects with File Anti-Virus (see section "Anti-virus protection of your computer's file system" on page [30](#)) and when scanning for viruses (see section "Scanning for viruses" on page [43](#)) on your computer.

If all groups are selected, Kaspersky Anti-Virus provides the maximum possible anti-virus protection for your computer. If the first group is selected, the application will disregard riskware and other programs, which could be installed on your computer, and which could cause you data loss or material damage.

Kaspersky Lab does not recommend disabling monitoring of Spyware, Adware and Auto-dialers. If Kaspersky Anti-Virus classifies a program as riskware which you do not consider dangerous, you can configure an exclusion for it (see section "Trusted zone creation" on page [27](#)).

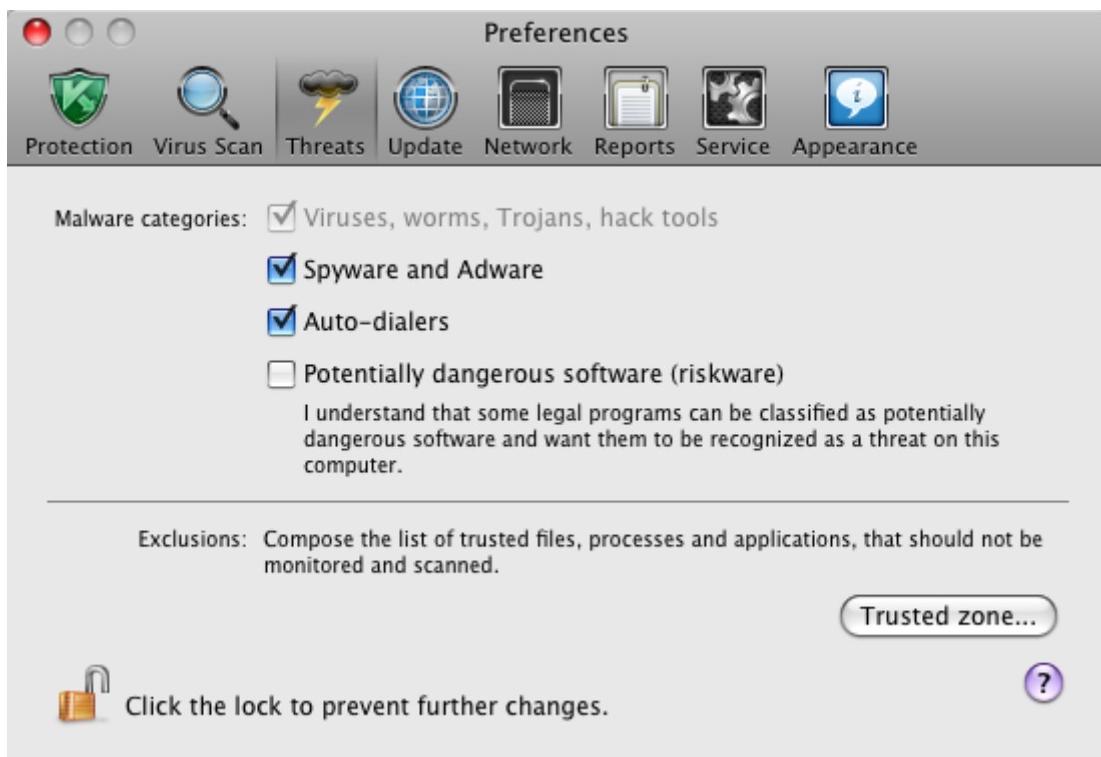


Figure 11: Application settings window. Threats

TRUSTED ZONE CREATION

Trusted zone is a user-created list of objects which Kaspersky Anti-Virus does not monitor. In other words, it is a set of exclusions from protection.

The user creates a trusted zone based on the features of the objects he or she uses and the programs installed on his or her computer. You might need to create such an exclusion list if, for example, Kaspersky Anti-Virus blocks access to an object or program which you know is safe.

Exclusion rules are sets of conditions under which Kaspersky Anti-Virus does not scan objects. You can exclude files using several criteria: file format, file name using a file mask, location (for example, a folder or a program), program processes, or using the Virus Encyclopedia threat type classification.

An excluded object will not be scanned when the disk or folder where it is located is being scanned. However, if you select to scan this object specifically, the exclusion rule will not be applied.

Threat type is the status that Kaspersky Anti-Virus assigns to an object during the scan. The status is based on the classification of malware and riskware listed in Kaspersky Lab's Virus Encyclopedia.

Riskware does not have any malicious function but can be used as an auxiliary component by malicious software, since such programs contain holes and errors. This category includes, for example, remote administration programs, IRC clients, FTP servers, various utilities for stopping processes or hiding them, keyloggers, password macros, and auto-dialers. Such programs are classified as not-a-virus. They can be divided into several types such as Adware, Joke, and Riskware. (For more information about potentially dangerous programs, see the Virus Encyclopedia (www.viruslist.com)). Based on the scan results, such programs may be blocked. Since several of them are widely used by users, you have the option of excluding them from the scan. To do this, add the threat name or threat name mask as defined in the Virus Encyclopedia to a trusted zone.

- *To create an exclusion list:*

1. Open the application settings window (on page [15](#)) and select the **Threats** section (see figure below).

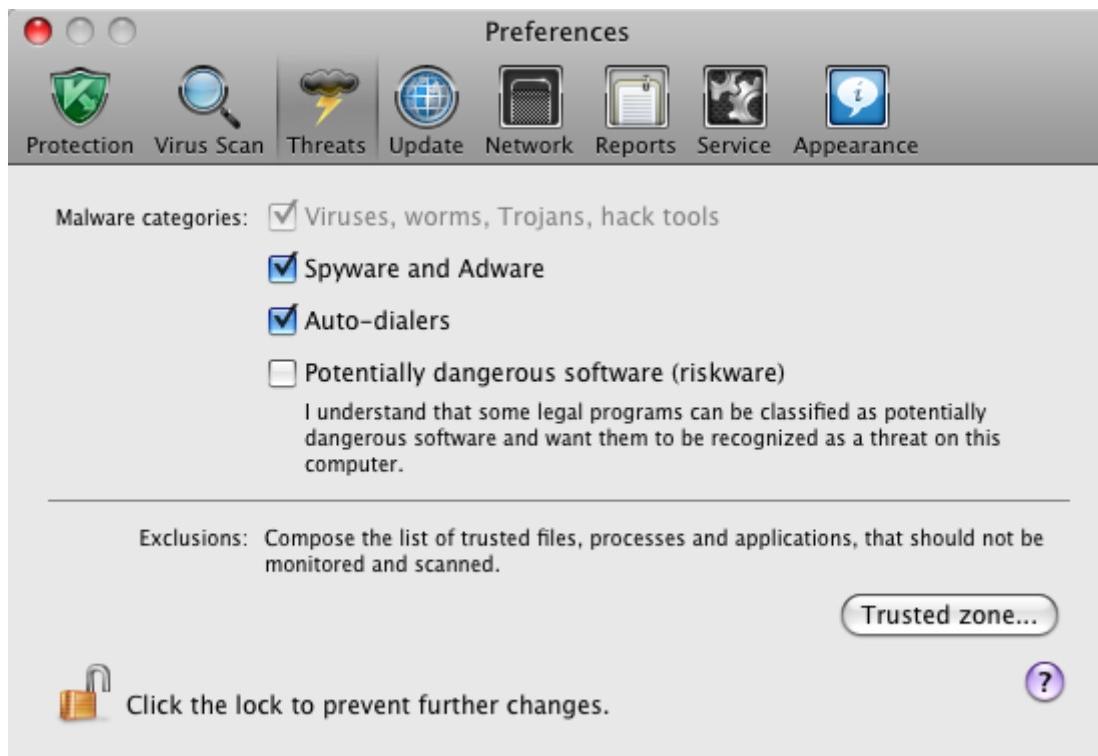


Figure 12: Application settings window. Threats

2. Click the **Trusted zone** button in the **Exclusions** section (see figure above). This will open the window containing a list of objects excluded from protection (see figure below).

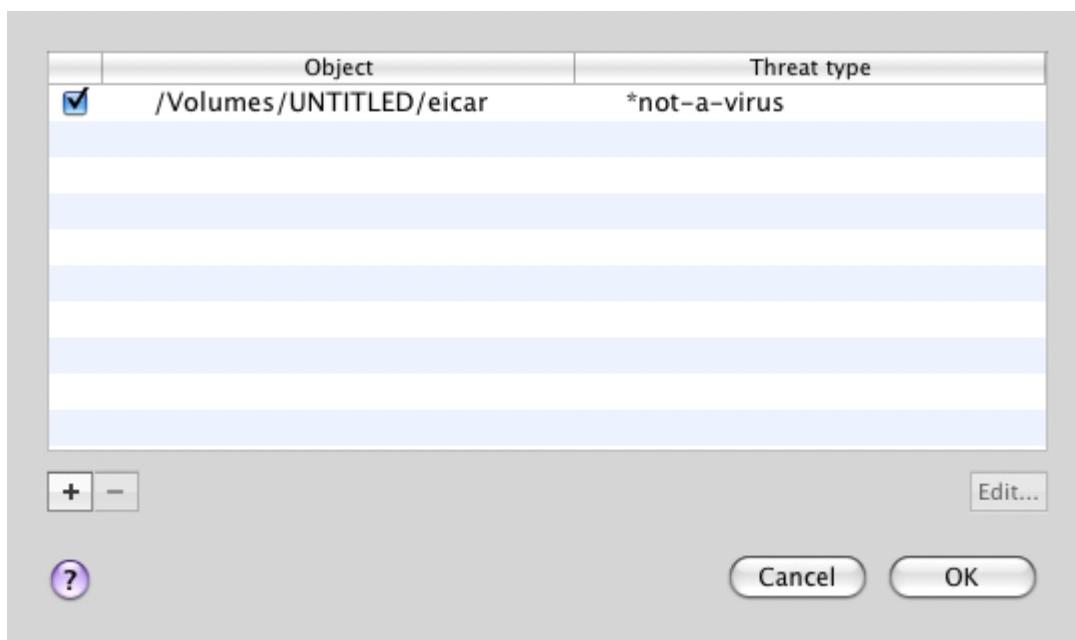


Figure 13: The list of exclusion objects

To edit the exclusion rule you are using, select it from the list and click the **Edit** button. To delete a rule, click the  button. To add a new exclusion rule, click the  button and specify the exclusion conditions in the rule creation window (see figure below).

- **Object / All objects.** Specify the exclusion object, which may be a file, a folder, or a file mask (see section "Allowed file exclusion masks" on page [91](#)). You can manually enter the object's name or the name mask in the field, or browse for the object in the window that opens by clicking the **Select** button. If the **All objects** option is selected, all objects on your computer which are of the threat type specified in the field below, will be excluded from the scan.
- **Threat type / All threats.** Exclude objects from scan based on the threat type assigned according to the Virus Encyclopedia classification. To enter the name of the threat, use the values of the dropdown list: **start with**, **contain**, **end with**, and specify the corresponding fragment of the name in the field to the right of the list. For example, if the **start with not-a-virus** value is selected, then legal but potentially dangerous programs will be excluded from scan. Specifying the name of the threat by mask (see section "Allowed exclusion masks according to the Virus Encyclopedia classification" on page [92](#)) is also admissible. If the **All threats** value is selected, then all objects specified in the field above will be excluded from the scan, regardless of the threat type assigned to them.

If both the exclusion object and the threat type are selected, the rule will apply as follows:

- If you specify a certain file as the object and a certain status as the threat type, the specified file will only be excluded if during the scan it is assigned the selected threat status.
- If you select an area or folder as the object and a status (or a mask) as the threat type, objects with that status will be excluded from the scan only in that area or folder.
- **Component / All components.** Specify which Kaspersky Anti-Virus components should use the rule you are creating: **File Anti-Virus** or **Virus scan**. If the **All components** option is selected, then all virus scan tasks and File Anti-Virus will use this rule.

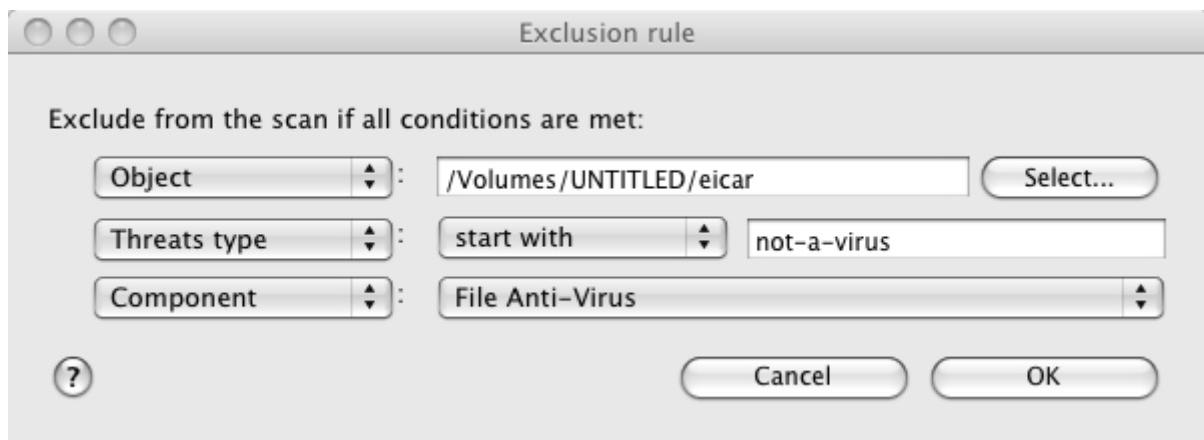


Figure 14: Creating an exclusion rule

ANTI-VIRUS PROTECTION OF YOUR COMPUTER'S FILE SYSTEM

Your computer's file system may contain viruses and other malicious programs that persist for years, having initially penetrated the computer from a removable disk drive or from the Internet, and never causing any trouble. But once the infected file is opened, the virus will be activated immediately.

File Anti-Virus is the component that monitors the computer's file system in real-time mode. By default, it launches on operating system startup, stays in RAM, and scans all files that are opened, started or saved on your computer and all associated disk drives.

The scan process comprises the following steps:

1. Each attempt by a user or a program to access any file is intercepted by the component.
2. File Anti-Virus scans the iSwift (see section "Configuring additional settings" on page [37](#)) database for information about the file. A decision whether to scan the file is made based on the information retrieved.
3. The file is analyzed for viruses. Malicious objects are recognized based on the Kaspersky Anti-Virus databases. These databases contain descriptions of all the currently known malicious programs and the means to neutralize them.
4. Following the analysis, one of the following Kaspersky Anti-Virus operation modes may be applied:
 - a. If a malicious code is detected in a file, File Anti-Virus blocks the file and attempts to disinfect it. After successful disinfection, the file will become accessible. If disinfection fails, the file will be deleted. When the file is disinfected or deleted, a copy of it is placed into the backup storage (on page [78](#)).
 - b. If a code that is similar to a malicious one is detected in the file but cannot be proved to be definitely malicious, the file will be placed into a special storage area called quarantine (on page [75](#)). The application will attempt to disinfect it later using updated databases.
 - c. If no malicious code is detected in the file, it will immediately become accessible.

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PAUSING / DISABLING FILE PROTECTION

You can disable File Anti-Virus and file protection on your computer using one of the methods described below. However, before doing so you should determine why you want to disable the component. It may be possible to solve your problem in another way, such as by changing the security level (see section "Selecting the file security level" on page [32](#)) or by disabling protection only for certain files.

For example, if you are working with a database that you know to be free from viruses, just specify the folder containing its files as an exclusion (see section "Trusted zone creation" on page [27](#)).

- To disable File Anti-Virus,

click the Kaspersky Anti-Virus icon (see page [15](#)) in the Dock or in the Mac OS Menu Bar and select the **Turn Protection Off** command.

You also can disable file protection from the application settings window (see section "Application settings window" on page [15](#)). To do this, select the **Protection** tab and uncheck the **Enable File Anti-Virus** box (see the figure below).



Figure 15: Application settings window. File Anti-Virus

If you disable File Anti-Virus in the application settings window, it will not be started automatically when Kaspersky Anti-Virus restarts. To restore file system protection, you will need to check the **Enable File Anti-Virus** box.

CONFIGURING FILE PROTECTION

The way of protecting files on your computer is determined by the following settings:

- **Security level.**

The security level is a set of parameters that define the balance between thoroughness and speed of scanning of objects. There are three preset security levels (see section "Selecting the file security level" on page [32](#)) with settings developed by Kaspersky Lab specialists.

- **Action on detected object.**

An action (see section "Selecting actions on objects" on page [40](#)) defines how Kaspersky Anti-Virus will react when an infected or potentially infected object is detected.

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SELECTING THE FILE SECURITY LEVEL

File Anti-Virus uses a security level to determine which objects to scan. There are three preset levels (see the figure below):

- **Maximum protection** is the most complete scan of the files you open, save, or start.
- **Recommended**. This is the level with the settings recommended by Kaspersky Lab experts.
- **Maximum speed** - this level enables you to comfortably use other applications that require significant system resources, since the range of files scanned is smaller.

The default setting for file protection is the **Recommended** level. You can raise or lower the scan's security level by selecting a new level, or by modifying the settings for the current level.

► *To change the security level,*

adjust the slider bar. Changing the security level changes the balance between scan speed and the total number of files scanned: the fewer the files scanned for viruses, the higher the scan speed.

If none of the preset security levels meets your needs, you can customize the protection settings. You are advised to select as a basis the level closest to your requirements, and edit its settings. This will change the name of the security level to **Custom**.

► *To modify the settings for the current security level:*

1. Open the application settings window (on page [15](#)) and select the **Protection** tab (see figure below).
2. Click the **Preferences** button in the **Security level** section.

3. Edit the file protection settings in the window that opens, and click the **OK** button.

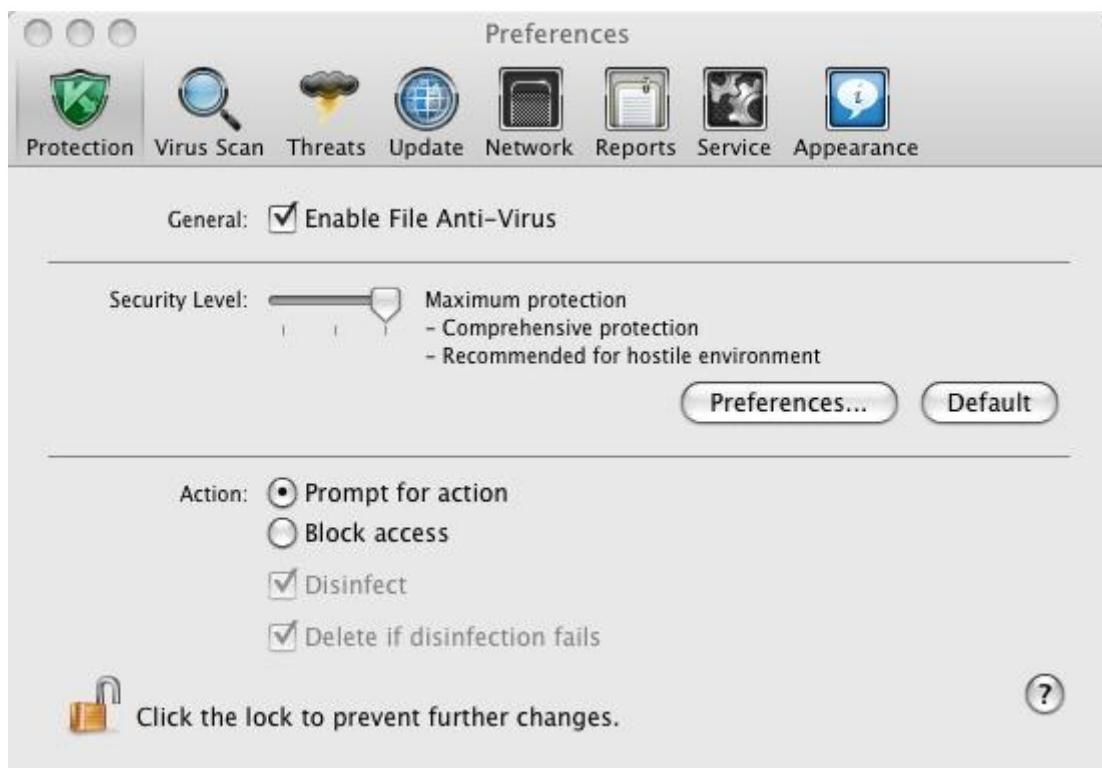


Figure 16: Application settings window. File Anti-Virus

SPECIFYING THE TYPES OF FILES TO SCAN

You can specify which types of files will be scanned by File Anti-Virus, using the criteria of file size, file format, or location, whenever they are opened, executed, or saved.

The types of files to be scanned for viruses are determined in the **File types** section (see the figure below). Select one of the three options:

- **Scan all files.** In this case, all file system objects being opened, launched, or saved will be subject to the scan.
- **Scan programs and documents (by content).** File Anti-Virus will only scan potentially infected files, i.e. files which can host and activate a virus.

Before scanning a file for viruses, its internal header is analyzed for file format (txt, doc, exe, etc.). If the analysis reveals that the file format is uninfectable, the file will not be scanned for viruses and will immediately be accessible. If the file format is at risk of infection, the file will be scanned for viruses.

- **Scan programs and documents (by extension).** File Anti-Virus will only scan potentially infected files, but the file format will be determined based on the filename's extension (see section "List of objects to scan by extension" on page [89](#)).

Do not forget that someone could send a virus to your computer with the .txt extension, although it might actually be an executable file renamed as a .txt file. If you select the **Scan programs and documents (by extension)** option, such a file will be skipped by the scan. If the **Scan programs and documents (by content)** option is selected, ignoring extensions, File Anti-Virus will analyze the file header, which will discover that the file is an .exe file. This file will be thoroughly scanned for viruses.

To shorten the duration of scans and increase the operating speed of the application, you can opt to scan only new files and files modified since the last scan. To enable this mode, check the **Scan only new and changed files** box in the **Optimization** section. This mode extends to simple and compound files.

In the **Compound files** section, specify which compound files should be scanned for viruses:

- **Scan archives** - scan archives in ZIP, CAB, RAR, ARJ formats;
- **Scan installation packages** - scan self-unpacking archives for viruses;
- **Scan attachments** - scan objects embedded in files, such as Excel spreadsheets or a macro embedded in a Microsoft Office Word file, or email attachments.

To specify which files should not be scanned for viruses, use the following settings:

- **Extract archive in background if larger than ... MB.** If the size of the compound object exceeds this limit, it will be scanned by Kaspersky Anti-Virus as a single object (header scanned) and become operable for the user. The objects it contains will be scanned later. If the box is not checked, access to files larger than the specified value will be blocked until the object scan is complete.
- **Do not process archives larger than ... MB.** Any file larger than the specified value will be skipped without being scanned for viruses.

► To specify types of objects to be scanned by File Anti-Virus:

1. Open the application settings window (on page [15](#)) and select the **Protection** tab.
2. Click the **Preferences** button in the **Security level** section (see the figure below).

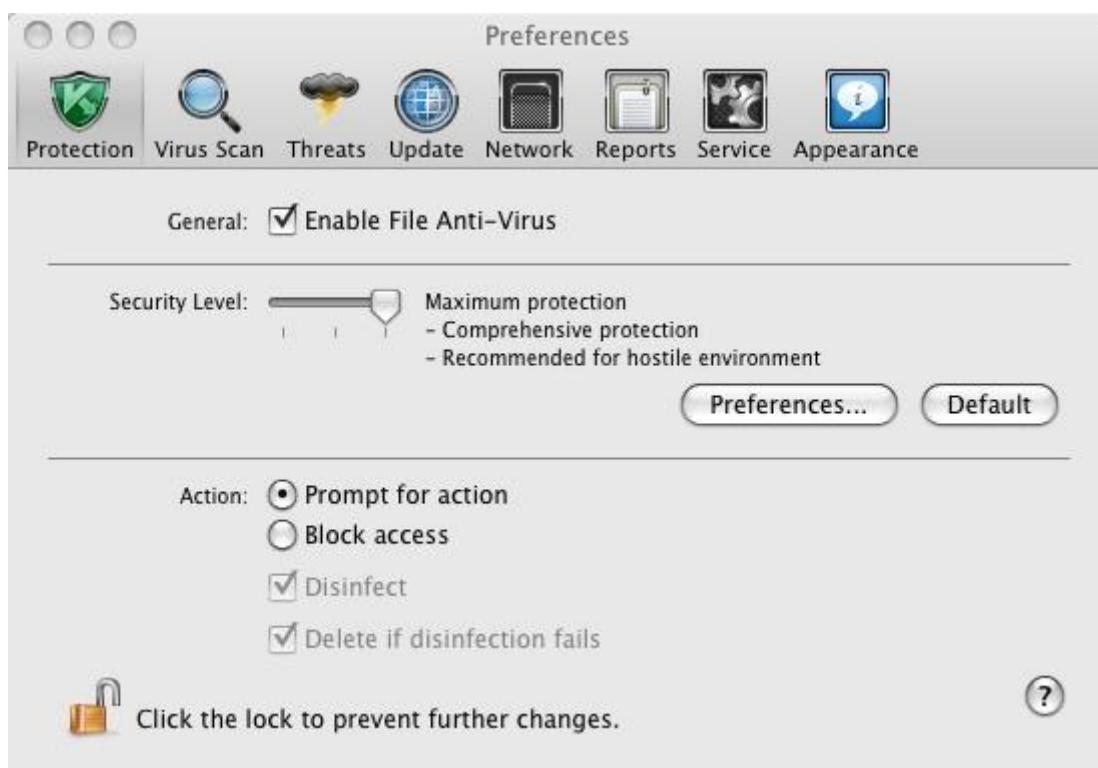


Figure 17: Application settings window. File Anti-Virus

3. Select the **General** tab in the window that opens (see the figure below).

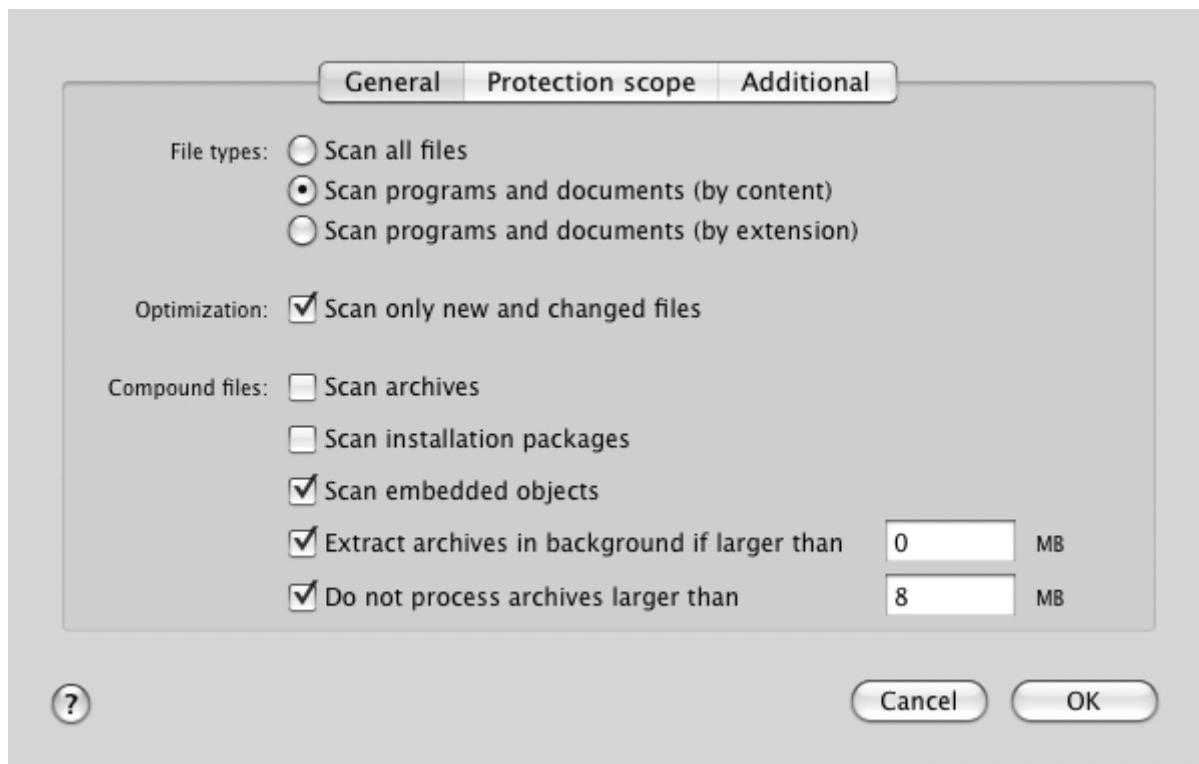


Figure 18: File Anti-Virus. Configuring scan settings

CREATING A PROTECTION SCOPE

By default, File Anti-Virus scans all files the moment they are accessed, regardless of the media they are stored on, whether it is a hard disk drive, a CD/DVD-ROM, or a flash card.

► To restrict the protection scope:

1. Open the application settings window (on page [15](#)) and select the **Protection** section (see figure below).

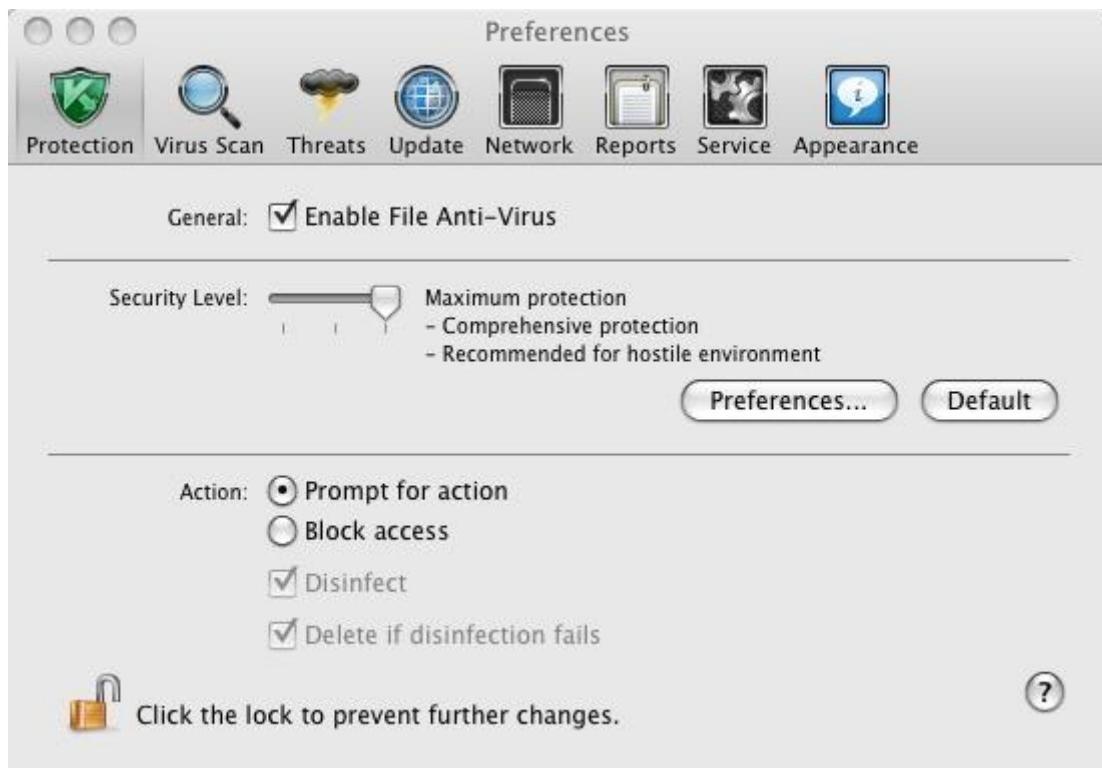


Figure 19: Application settings window. File Anti-Virus

2. Click the **Preferences** button in the **Security level** section.

3. In the window that opens, select the **Protection scope** tab (see the figure below).

The tab contains the list of objects which will be scanned by File Anti-Virus. By default, all objects located on hard, removable and network disk drives connected to your computer, are protected. You can fill in or edit the list using the buttons located under the list.

► To limit the number of objects subject to protection, you can:

1. Specify folders, drives or files that should be protected.
2. Create a list of objects, which do not need protection.

3. Combine the first and second ways, i.e. create a protection scope and exclude a number of objects from it.

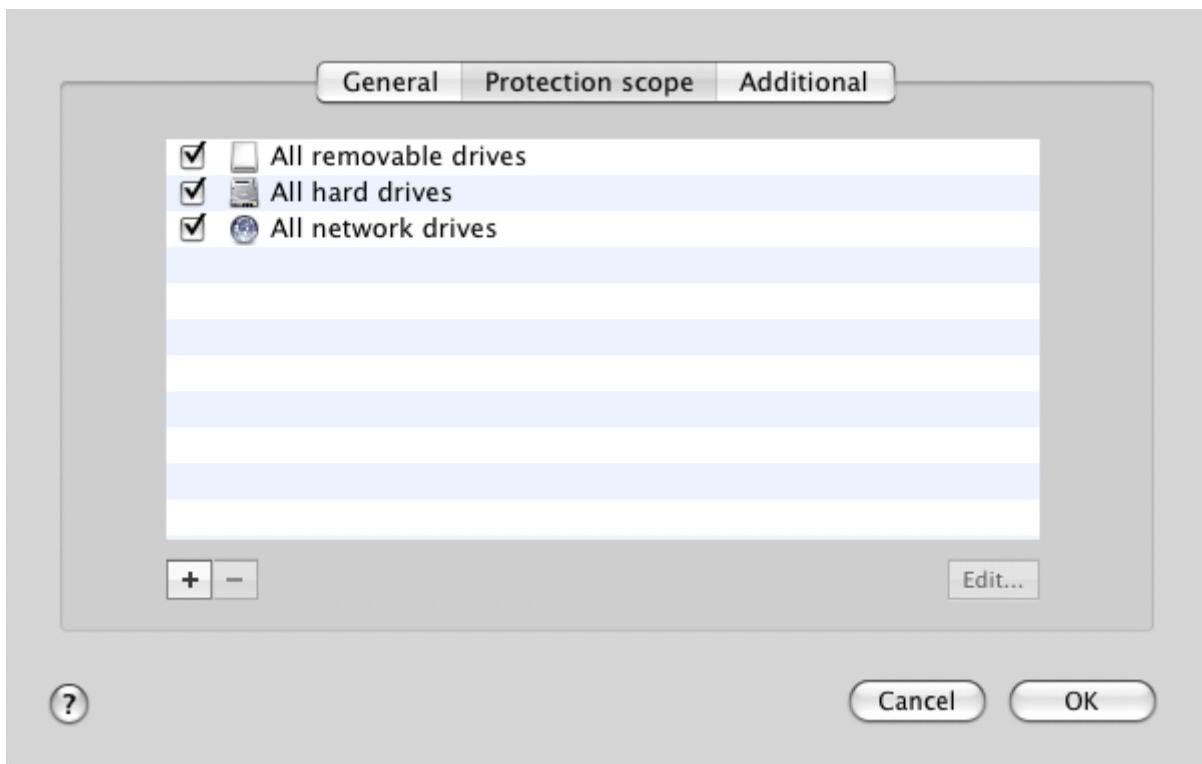


Figure 20: File Anti-Virus. Creating a protection scope

CONFIGURING ADDITIONAL SETTINGS

You can configure the following additional settings for File Anti-Virus: scan mode for the file system objects, use of iSwift technology, which increases performance of objects processing, and conditions for temporarily pausing the component.

► To configure additional settings of File Anti-Virus:

1. Open the application settings window (on page [15](#)) and select the **Protection** section (see figure below).



Figure 21: Application settings window. File Anti-Virus

2. Click the **Preferences** button in the **Security level** section.
3. In the window that opens, select the **Additional** tab (see the figure below).

The object scanning mode determines File Anti-Virus processing conditions. You have the following options:

- **Smart mode.** This mode is aimed at speeding up the processing of objects and returning them to the user. When it is selected, a decision to scan is made based on analyzing the operations performed with the object.

For example, when using a Microsoft Office file, Kaspersky Anti-Virus scans the file when it is first opened and last closed. All operations in between that overwrite the file are not scanned.

Smart mode of scanning the objects is used by default.

- **On access and modification** – File Anti-Virus scans objects as they are opened or edited.
- **On access** – only scans objects when an attempt is made to open them.
- **On execution** – only scans objects when an attempt is made to run them.

Note that the files being opened will be intercepted and scanned by File Anti-Virus, regardless of the mode you have selected.

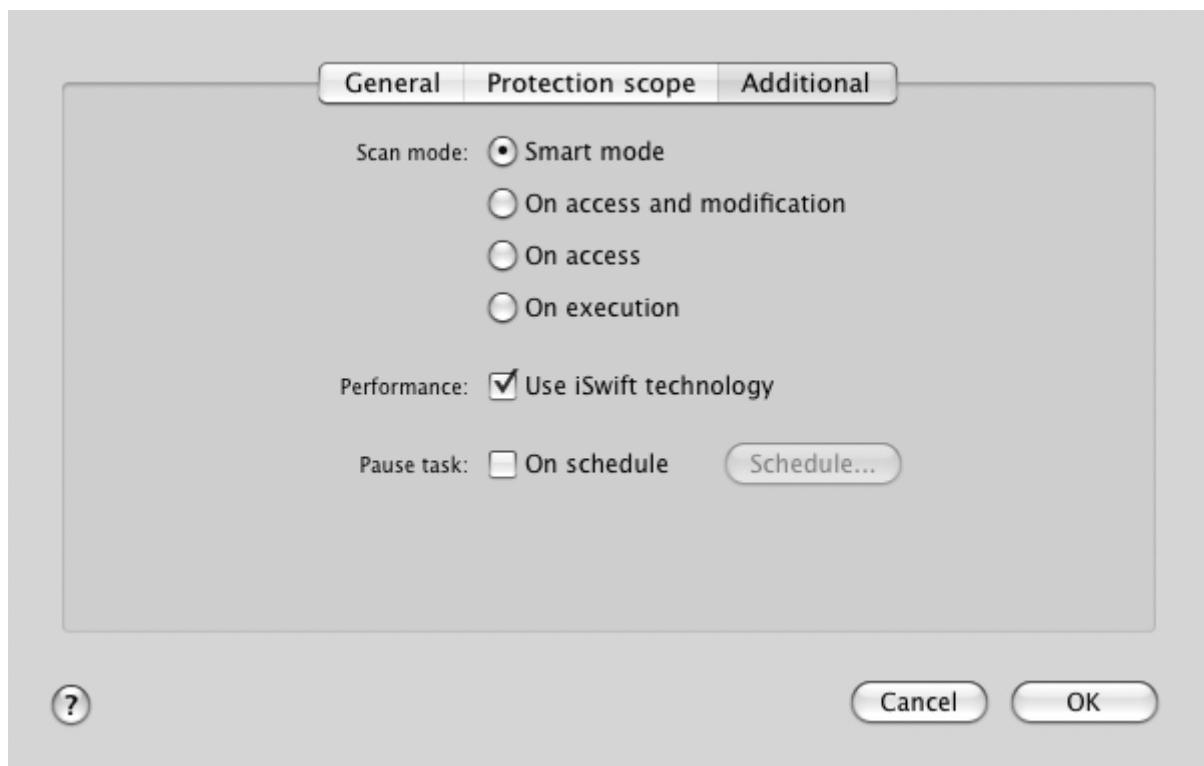


Figure 22: File Anti-Virus. Configuring additional settings

iSwift technology can increase the speed of the File Anti-Virus by excluding certain objects from the scan. An object is excluded from the scan using a special algorithm that takes into account the release date of the database, the date the object was last scanned and any modifications to the scan settings. This technology works with objects of any format, size and type. There are limitations to iSwift: it is bound to a specific file location in the file system and can apply only to objects in HFS. To enable iSwift during the scan, check the **Use iSwift technology** box in the **Performance** section.

You might need to pause File Anti-Virus when performing tasks that require significant resources from the operating system. To lower the load and ensure that the user obtains access to files quickly, we recommend configuring the component to disable at a certain time.

To pause the functioning of the component for a while, in the window that opens, check the **On schedule** box and set the time limits for disabling the component by clicking the **Schedule** button (see the figure below). To do this, enter a value in the HH:MM format in corresponding fields.

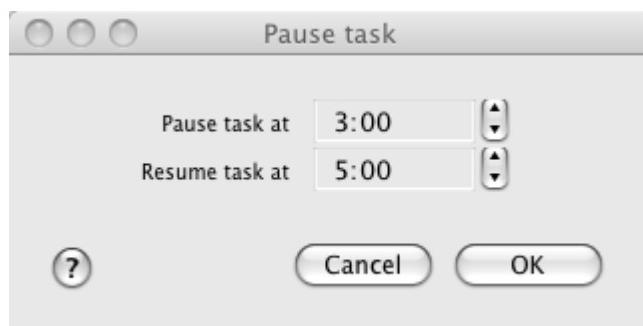


Figure 23: Pausing File Anti-Virus

SELECTING ACTIONS ON OBJECTS

If an anti-virus scan shows that a file is infected or suspicious, File Anti-Virus' subsequent actions depend on the object's status and the action selected.

When the scan is complete, the object may be identified as:

- malicious, for example, virus, Trojan;
- potentially infected when the scan cannot determine whether the object is infected or not. The application has probably found in the file a sequence of code from an unknown virus, or of modified code from a known virus.

By default, all infected objects undergo disinfection, and all potentially infected files are quarantined.

► *To change the action on an object,*

open the application settings window (on page [15](#)) and select the **Protection** tab (see figure below). In the table below you can find descriptions of all available File Anti-Virus actions on objects.



Figure 24: Application settings window. File Anti-Virus

Table 1. Descriptions of all available actions on objects

If the action you have selected is...	... when an infected or potentially infected object is detected:
Prompt for action	Kaspersky Anti-Virus will display a warning message with the information about which malicious code has infected (potentially infected) the file, and offers you the choice of the following actions. These actions may vary depending on the object's status.
Block access	Kaspersky Anti-Virus blocks access to the object, but its location will not be changed. Relevant information is logged in the report. To gain access to an object, objects in the report should be processed (see section "The Detected tab" on page 83).

If the action you have selected is...	... when an infected or potentially infected object is detected:
Block access Disinfect	Kaspersky Anti-Virus blocks access to the infected object and attempts to disinfect it. If the object is successfully disinfected, it becomes available for use. If the object cannot be disinfected, its location is not be changed. To gain access to an object, objects in the report should be processed (see section "The Detected tab" on page 83). When a potentially infected object is detected, the application blocks access to this object and quarantines it (on page 75).
Block access Disinfect Delete if disinfection fails	Application blocks access to the object and attempts to disinfect it. If the object is successfully disinfected, it becomes accessible to the user. If the object cannot be disinfected, it will be deleted.
Block access Delete	Application blocks access to the object and deletes it.

Before disinfecting the object or deleting it, Kaspersky Anti-Virus creates a backup copy and places it to the backup (on page [78](#)) in case the object will need to be restored, or it becomes possible to disinfect it.

RESTORING DEFAULT FILE PROTECTION SETTINGS

When modifying the File Anti-Virus settings, it is always possible to restore the default settings. Kaspersky Lab considers these settings to be optimal and have collected them in the **Recommended** protection level.

► *To restore default protection settings:*

1. Open the application settings window (on page [15](#)) and select the **Protection** tab (see figure below).
2. Click the **Default** button in the **Security level** section.

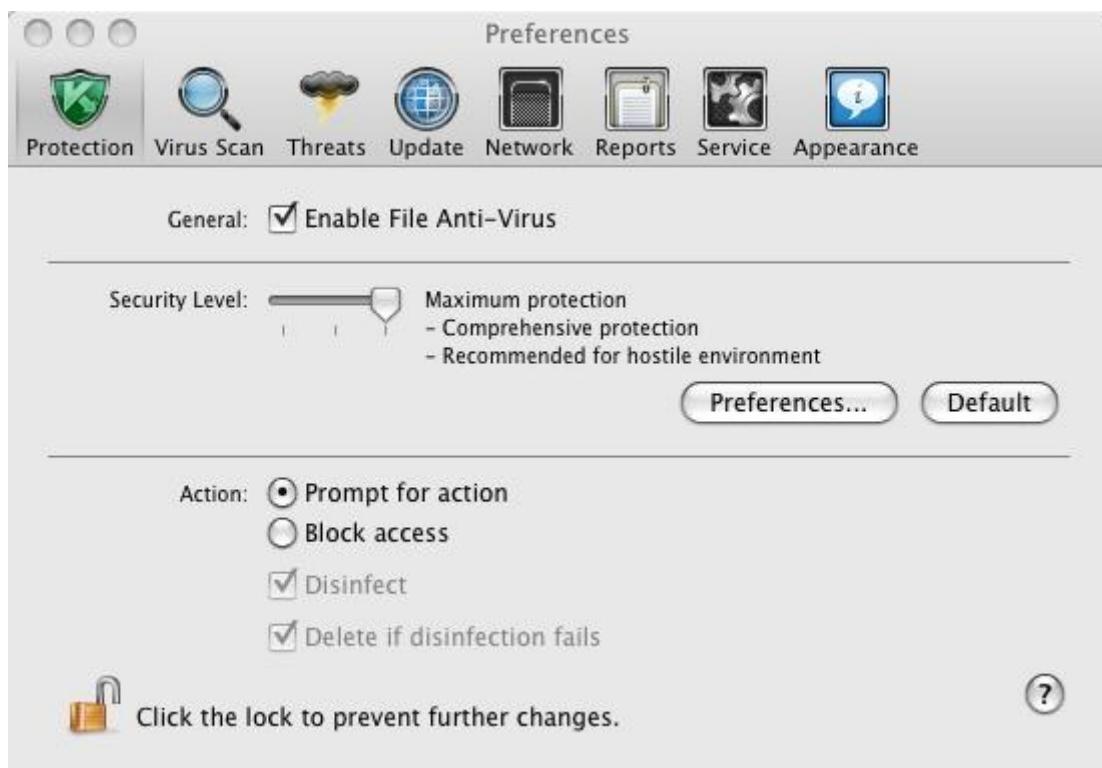


Figure 25: Application settings window. File Anti-Virus

FILE PROTECTION STATISTICS

The main application window displays summary statistics related to the current performance of File Anti-Virus, including: the number of objects scanned during File Anti-Virus' current session; the number of dangerous objects detected, and the name of the file currently being scanned (see section "Main application window" on page [13](#)).



To view the detailed report of the component's performance, click the button in the main application window and select **File Anti-Virus** from the **Running tasks** section in the report window that opens. If File Anti-Virus is currently disabled for some reason, you may view the detailed report on its performance during its previous startup in the **Completed tasks** area of the report window.

If File Anti-Virus returns an error when closing, view the report and try to restart the component. If you cannot solve the problem on your own, please contact Kaspersky Lab's Technical Support Service (see section "Contacting Technical Support" on page [9](#)).

General information about the component's performance is grouped on the following tabs:

- All dangerous objects detected when protecting the file system are listed on the **Detected** tab (see section "The Detected tab" on page [83](#)). The tab contains the full path to the location of each object and the status assigned to the object by the File Anti-Virus. If the malicious program that has infected the object is revealed, this object is assigned the corresponding status (for example, *virus*, *Trojan* etc.). If the type of malicious effect cannot be exactly established, the object is assigned the status of *suspicious*. Next to the status, the action taken on the object is specified (*detected*, *not found*, *disinfected*).
- The **Events** tab shows the complete list of events that have occurred during File Anti-Virus' operation (see section "The Events tab" on page [84](#)). The events can have the following statuses:
 - *information event* - for example, object not processed: skipped by type;
 - *warning* - for example, a virus is detected;
 - *note* - for example: archive is password-protected.
- **Statistics** appear on the corresponding tab (see section "The Statistics tab" on page [84](#)). Here you will find the total number of scanned objects, and further columns show how many archives, dangerous objects, disinfected objects, quarantined objects etc have been processed out of the total number of objects scanned.
- **Preferences** enabled for File Anti-Virus are displayed on the tab with the same name (see section "The Preferences tab" on page [86](#)). To switch to editing the component settings, use the **Change preferences** button.

SCANNING FOR VIRUSES

In addition to the computer protection (see section "Anti-virus protection of your computer's file system" on page [30](#)) provided by the File Anti-Virus, it is critical to periodically scan the computer for viruses. This is required to stop the spread of malicious programs not detected by File Anti-Virus, because, for instance, a low protection level has been selected.

The following tasks are executed by Kaspersky Anti-Virus to perform virus scans:

-  **Virus Scan**

Scan individual items for viruses, such as files, folders, disks, plug-and-play devices.

-  **Full Scan**

Search for viruses on your computer with a thorough scan of all disk drives.

-  **Quick Scan**

Scans only critical areas of the computer for viruses, including folders with operating system files (/System) and system libraries (/Library).

By default, these tasks are executed using recommended settings. You can edit these settings (see section "Configuring virus scan tasks" on page [48](#)), or create a schedule for running tasks (see section "Configuring the scan task schedule" on page [54](#)). You also have the option of creating users virus scan tasks (see section "Creating virus scan tasks" on page [46](#)).

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Creating the list of objects to scan.....	45
Creating virus scan tasks	46
Configuring virus scan tasks.....	48
Virus scan statistics	59

MANAGING VIRUS SCAN TASKS

You can run a virus scan task either manually, or automatically using a schedule (see section "Configuring the scan task schedule" on page [54](#)).

► *To start a virus scan task manually:*

1. Open the main application window (on page [13](#)) and click the  button.

2. In the menu (see figure below) that opens, select the required task **Full Scan**, **Quick Scan** or **Virus Scan**. If you select the latter, the application will ask to select the object / objects for scan (see section "Creating the list of objects to scan" on page [45](#)). Apart from the above listed tasks, included in the application package, the menu can also display users scan tasks (see section "Creating virus scan tasks" on page [46](#)), if such tasks were created.



Figure 26: Virus scan tasks

Information on currently running tasks is displayed in the left part of the main window, and also in the **Running tasks** section of the reports window (see section "Reports" on page [81](#)). Information on the performed tasks displayed in the **Completed tasks** section of the report window.

► *To pause a virus scan task:*

1. Open the Kaspersky Anti-Virus report window. To do this, click the globe icon in the main window (see section "Main application window" on page [13](#)).

- In the list on the left, select the name of the virus scan task (see figure below) and click the **Pause** button. This will pause the scan until you start the task again manually or it starts again automatically according to the schedule. To start the scan manually, click the **Start** button.

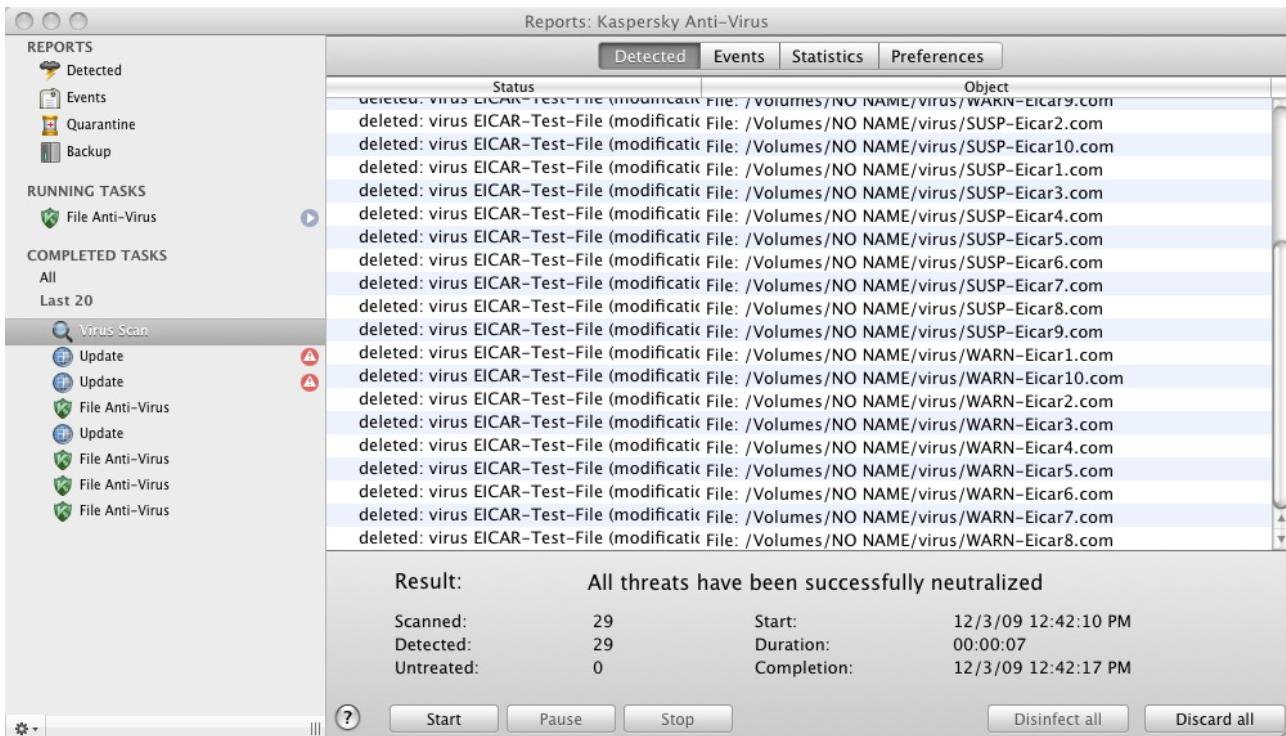


Figure 27: Managing virus scan tasks from the report

- To stop a virus scan task, please do the following:

- Open the Kaspersky Anti-Virus report window. To do so, click the globe icon in the main window (see section "Main application window" on page [13](#)).
- In the list on the left, select the name of the virus scan task (see figure above) and click the **Stop** button. This will pause the scan until you start the task again manually or it starts again automatically according to the schedule. Next time you run the task, the application will ask whether you want to continue the task where it stopped, or start again.

CREATING THE LIST OF OBJECTS TO SCAN

The application package includes two virus scan tasks with already created lists of objects to scan: **Full Scan** and **Quick Scan**. The first task allows you to scan your computer and all connected devices for viruses. The second task only scans vulnerable objects: system folders and libraries, boot folder.

- To browse the list of scan objects or edit the list:

- Open the application settings window (on page [15](#)) and select the **Virus Scan** tab.
- In the list on the left, select the task name: **Full Scan** or **Quick Scan**. In the right part of the window, in the **Objects to scan** section, press the **Edit** button. This will open the window, containing a list of objects (see figure below). Edit the list of objects, if you need it.

To add the object to the list, drag-n-drop it to the window or click the button. In the latter case the standard file selection dialog will be opened. If the object being added contains embedded items that should also be scanned (for example, subfolders), check the **Include subfolders** box in the file selection window.

To delete an object, select it from the list and click the  button. You can temporarily disable scanning of individual objects for any task without deleting them from the list. To do this, uncheck the box beside the object that you do not want to scan.

You can create / edit a list of objects to scan for users task (see section "Creating virus scan tasks" on page [46](#) in the same way).

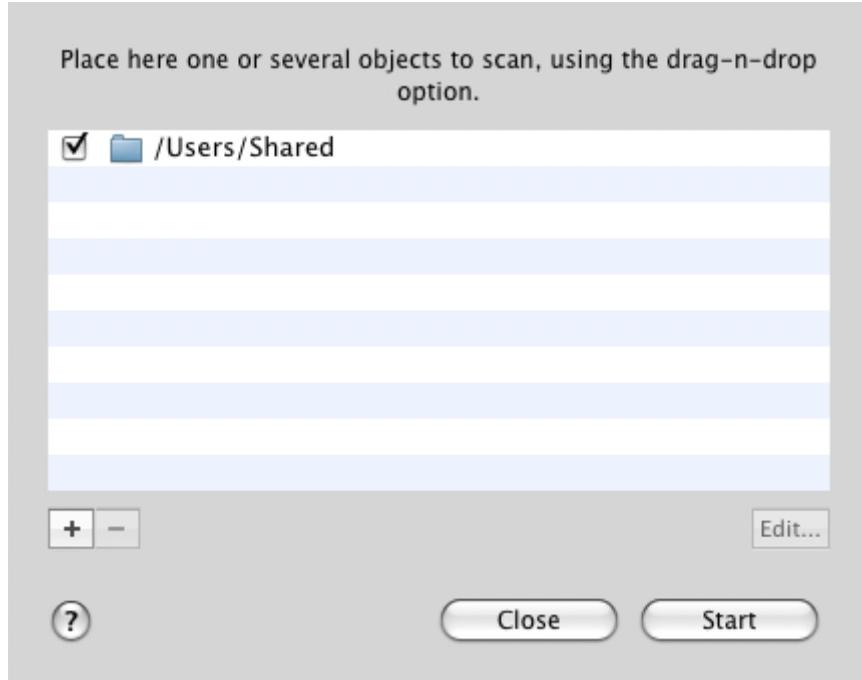


Figure 28: Creating a list of objects to scan

In addition to full and quick scan, Kaspersky Anti-Virus includes the file / folder scan task: **Virus Scan**. This task does not have a predefined list of objects to scan. You will be invited to create a list of objects to scan every time you run the task.

► *To select one or several objects to scan:*

1. Open the main application window (on page [13](#)) and click the  button.
2. In the menu that opens, select the **Virus Scan** task. This will open the window, containing a list of objects (see figure above). Edit the list using the algorithm described above.

CREATING VIRUS SCAN TASKS

To scan objects on your computer for viruses, you can use the scan tasks which are installed with Kaspersky Anti-Virus, or create your own tasks. New tasks are created by modifying existing ones.

► To create a new virus scan task:

1. Open the application settings window (on page [15](#)), select the **Virus Scan** tab and select the task with the settings closest to your needs in the dropdown list on the left (see figure below).

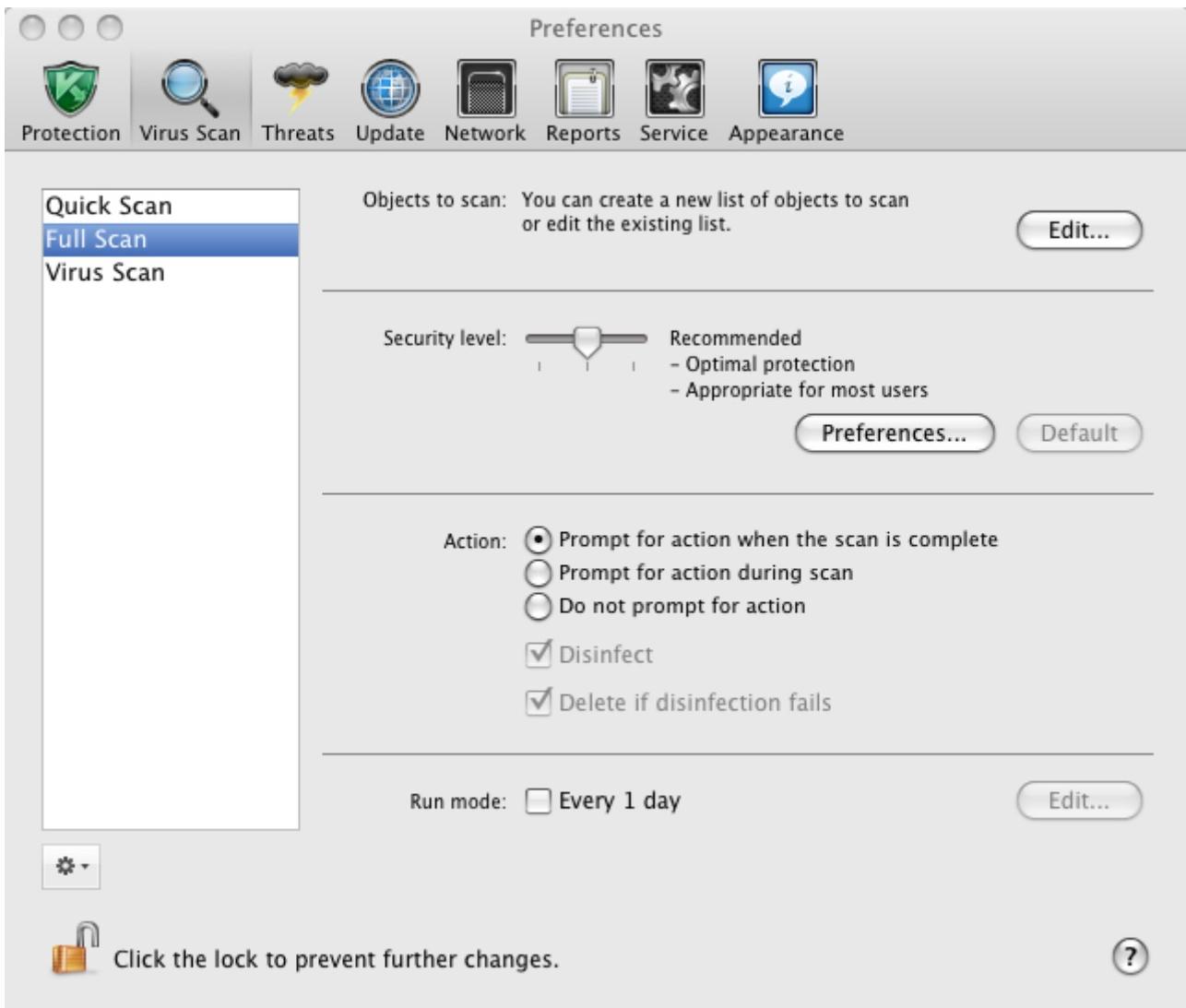


Figure 29: Application settings window. Full scan task

2. Click the button located under the virus scan task list and select **Copy**.
3. Enter a name for the task in the window that opens and click the **OK** button. A task with the name you have specified will appear in the task list.

The new task inherits all the properties of the task from which it was created. You need to carry out an additional configuration by creating a list of objects to scan (see section "Creating the list of objects to scan" on page [45](#)), specifying the preferences (see section "Configuring virus scan tasks" on page [48](#)), which will define the task execution, and configuring a schedule for the task autorun (see section "Configuring the scan task schedule" on page [54](#)).

The application limits a maximum number of tasks, created by the user, to six.

► To rename a created task, please do the following

1. Select the task from the list, click the button under the scan task list, and select the **Rename** button.

2. Enter a new name for the task in the window that will open and click the **OK** button. The task name will change.

► *To delete a created task, please do the following*

1. Select the task from the list, click the  button under the scan task list, and select **Delete**.
2. Confirm the task deletion in the window that will prompt you for confirmation. The task will be deleted from the task list.

You can only rename and delete tasks that you have created.

CONFIGURING VIRUS SCAN TASKS

The following settings determine how objects are scanned on your computer:

- **Security level.**

The security level is a set of parameters that define the balance between thoroughness and speed of scanning of objects. There are three preset security levels (see section "Selecting the file security level" on page [32](#)) with settings developed by Kaspersky Lab specialists.

- **Action on detected object.**

An action defines how Kaspersky Anti-Virus (see section "Selecting actions on objects" on page [40](#)) will react when an infected or potentially infected object is detected.

- **Schedule.**

Automatically running tasks by a schedule (see section "Configuring the scan task schedule" on page [54](#)) enables you to scan your computer for viruses at a time convenient for you.

Additionally, you can specify uniform settings for running all tasks.

IN THIS SECTION:

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Specifying the types of objects to be scanned.....	50
Selecting actions on objects	52
Configuring the scan task schedule	54
Running scan tasks under the user account.....	55
Assigning uniform scan settings to all tasks	57
Restoring default scan settings	58

SELECTING A SECURITY LEVEL

Virus scan task uses a security level to determine which objects to scan (see the figure below). There are three preset levels:

- **Maximum protection.** The most complete **scan** of the entire computer or individual disks, folders, or files. We recommend using this level if you suspect that a virus has infected your computer.
- **Recommended.** This is the level with the settings recommended by Kaspersky Lab experts.
- **Maximum speed.** This level enables you to comfortably use other applications that require significant system resources, since the range of files scanned is smaller.

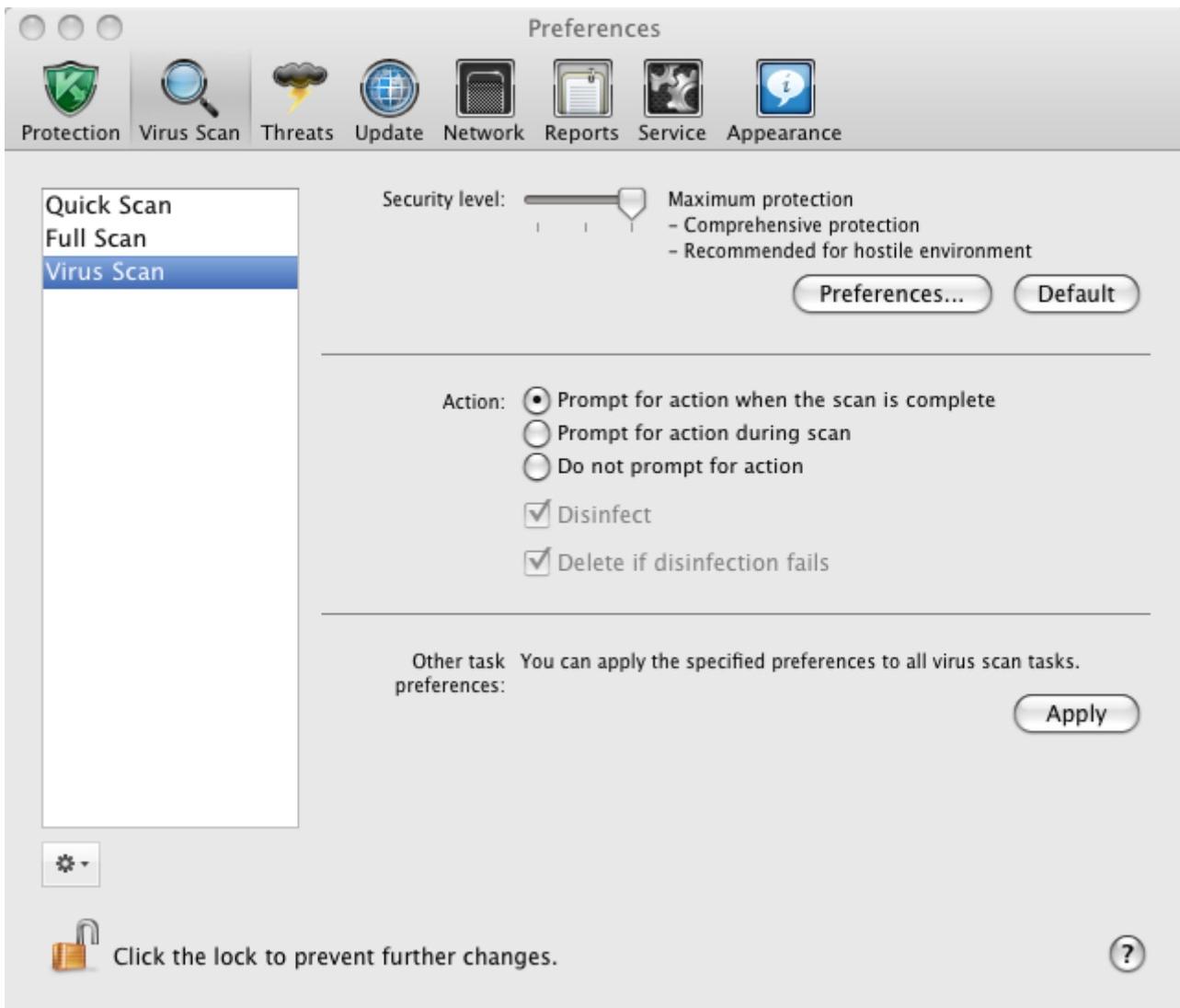


Figure 30: Application settings window. Scanning for viruses

The default setting for object scan is the **Recommended** level. You can raise or lower the scan's security level by selecting a new level, or by modifying the settings for the current level.

► *To change the security level,*

adjust the slider bar. Changing the security level changes the balance between scan speed and the total number of files scanned: the fewer the files scanned for viruses, the higher the scan speed.

If none of the preset security levels meets your needs, customize the scan settings. You are advised to select as a basis the level which is the closest to your requirements, and edit its settings. This will change the name of the security level to **Custom**.

► *To modify the settings for the current security level:*

1. Open the application settings window (on page 15) and select the **Virus Scan** tab (see figure above).

2. Click the **Preferences** button in the **Security** level section.
3. Edit the file protection settings in the window that opens, and click the **OK** button.

SPECIFYING THE TYPES OF OBJECTS TO BE SCANNED

You can specify which types of objects will be scanned, by specifying which file formats, file sizes, and drives will be scanned for viruses when this task runs.

The types of files to be scanned for viruses are determined in the **File types** section (see the figure below). Select one of the three options:

- **Scan all files.** With this option, all files will be scanned.
- **Scan programs and documents (by content).** If you select this group, only potentially infected files will be scanned, i.e. files which can host and activate a virus.
Before scanning a file for viruses, its internal header is analyzed for file format (txt, doc, exe, etc.).
- **Scan programs and documents (by extension).** Kaspersky Anti-Virus will only scan potentially infected files, but the file format will be determined based on the filename's extension (see section "List of objects to scan by extension" on page [89](#)).

Do not forget that someone could send a virus to your computer with the .txt extension, although it might actually be an executable file renamed as a .txt file. If you select the **Scan programs and documents (by extension)** option, such a file will be skipped by the scan. If the **Scan programs and documents (by content)** option is selected, ignoring extensions, Kaspersky Anti-Virus will analyze the file header, which will reveal that the file is an .exe file. This file will be thoroughly scanned for viruses.

You can set time and file size limits for scanning an object and enable iChecker technology in the **Optimization** section.

- **Skip if scan takes longer than... sec.** Check this box to set a limit on the scan of a single object and enter the maximum scan time for an object in the field to the right. If this value is exceeded, the object will be excluded from the scan.
- **Do not scan archives larger than ... MB.** Check this box to set a limit on the scan of a single object by its size, and enter the maximum size for an object in the field to the right. If this value is exceeded, the object will be excluded from the scan.
- **Scan only new and changed files.** If the box is checked, only new files and files that were modified since the time of the last scan will be scanned. This operation mode can significantly shorten the duration of scans.
- **Use iSwift technology.** Check iSwift technology box which increases performance of the objects processing by excluding certain objects from the scan. An object is excluded from the scan using a special algorithm that takes into account the release date of the database, the date the object was last scanned and any modifications to the scan settings. This technology works with objects of any format, size and type. There are limitations to iSwift: it is bound to a specific file location in the file system and can apply only to objects in HFS.

In the **Compound files** section, specify which compound files should be scanned for viruses:

- **Scan archives** – scan .RAR, .ARJ, .ZIP, .CAB, .LHA, .JAR, and .ICE archives.

Certain archive files (such as .ha, .uue, .tar) cannot be deleted automatically since Kaspersky Anti-Virus does not support their disinfection, even if you select the **Disinfect** and **Delete if disinfection fails** options.

To delete such archives, click the **Delete archive** button in the dangerous object detection notification window. This notification is displayed after the program has started processing objects detected during the scan. You can also delete infected archives manually.

- **Scan attachments** - scan objects embedded in files (for example, Excel spreadsheets or a macro embedded in a Microsoft Word file, email attachments, etc.).
- **Scan email format files** - scan email format files and email databases. If this box is checked, Kaspersky Anti-Virus scans each component of the email message (body and any attachments). If this box is not checked, the email file will be scanned as a single object.
- **Scan password-protected archives** - enable scanning of password-protected archives. With this feature enabled, a password will be requested before scanning archived objects. If this box is not checked, password-protected archives will be skipped when scanning.

► To configure the settings for objects to scan, please do the following:

1. Open the application settings window (on page [15](#)) and select the **Virus Scan** tab.
2. Click the **Preferences** button in the **Security level** section (see the figure below).

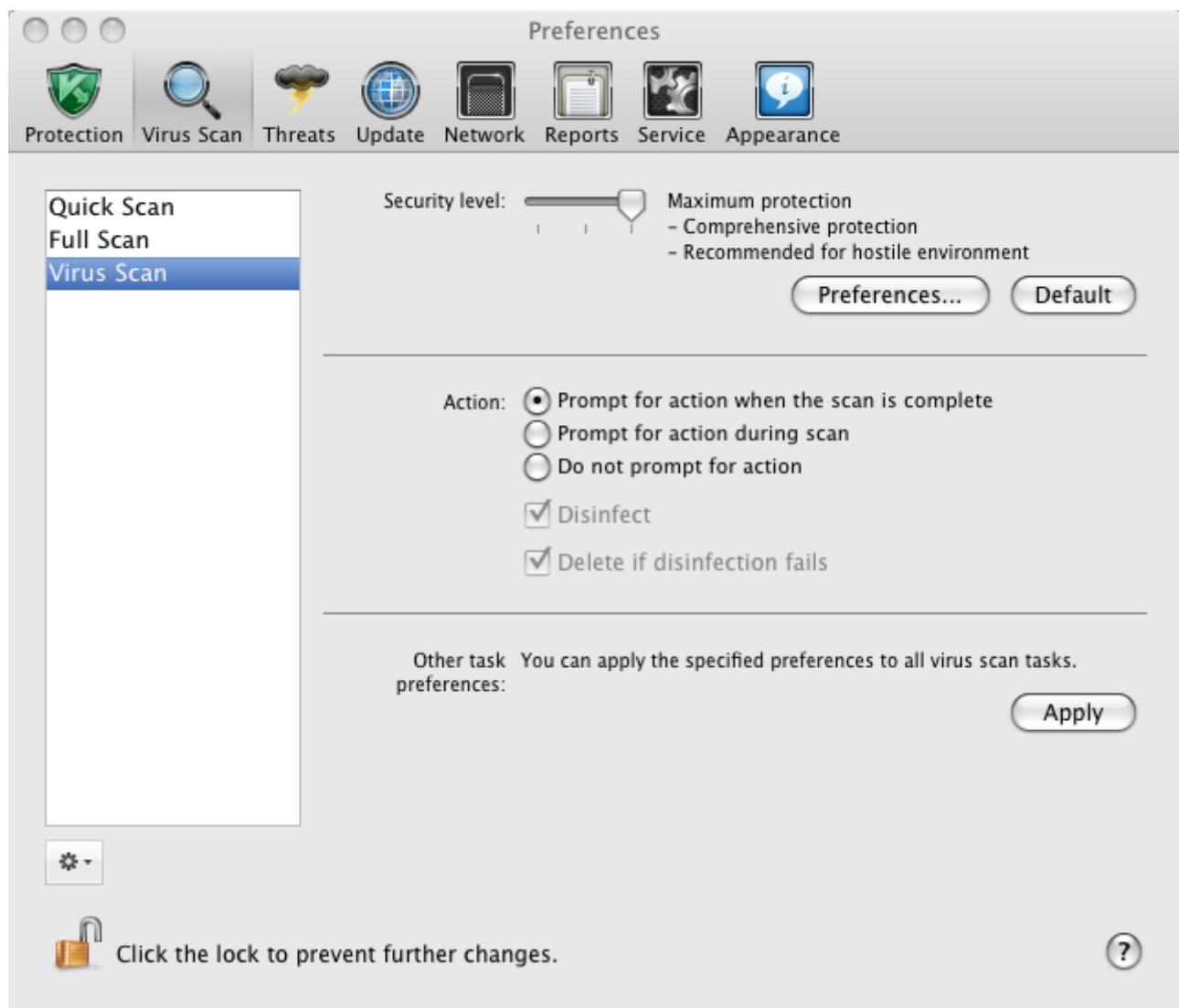


Figure 31: Application settings window. Scanning for viruses

3. Select the **General** tab in the window that will open (see the figure below).

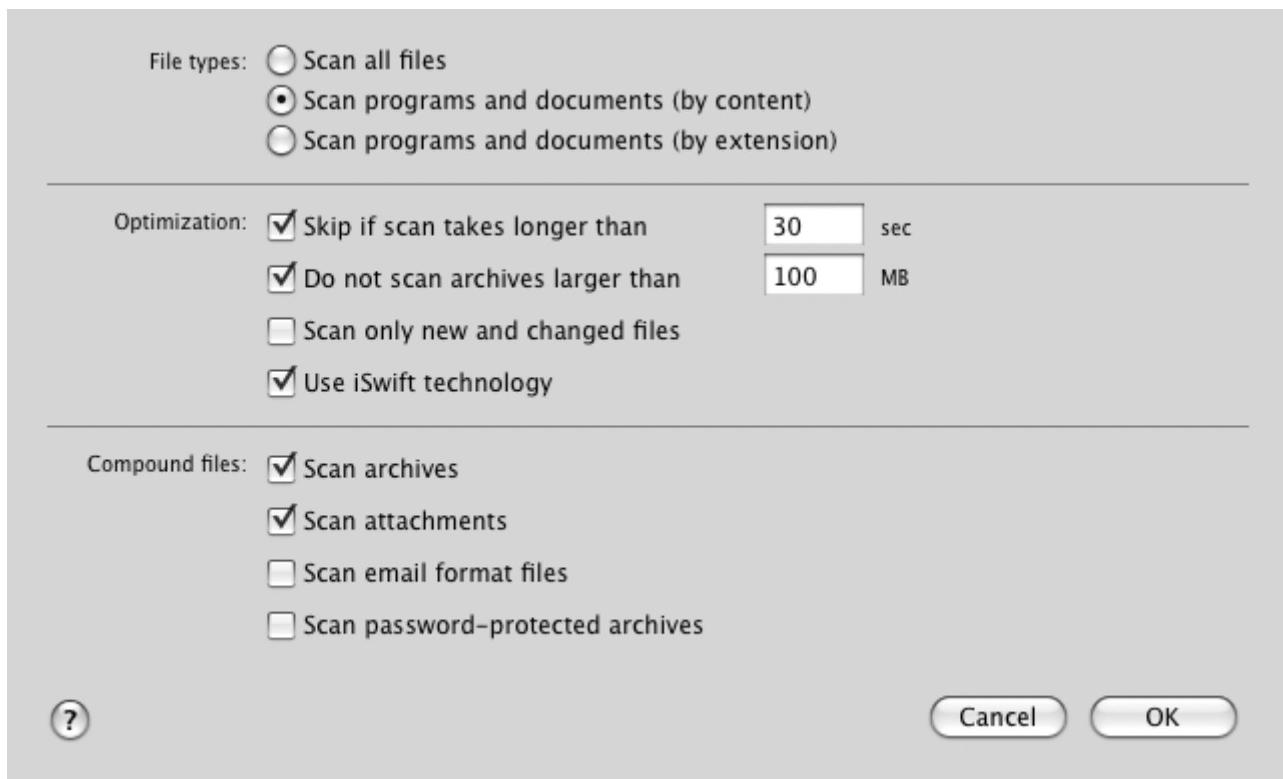


Figure 32: Scanning for viruses. Configuring scan settings

SELECTING ACTIONS ON OBJECTS

If an anti-virus scan shows that a file is infected or suspected of being infected, Kaspersky Anti-Virus' subsequent actions depend on the object's status and the action selected.

One of the following statuses can be assigned to the object after the scan:

- status of a malicious program (for example, *virus*, *Trojan*).
- *potentially infected* when the scan cannot determine whether the object is infected or not. The program has probably found in the file a sequence of code from an unknown virus, or of modified code from a known virus.

By default, all infected files are subject to disinfection, and all potentially infected files are sent to quarantine (on page [75](#)).

- To change the action on an object,

open the application settings window (on page 15), open the **Virus Scan** tab, and select the name of the required task. In the table below you can find descriptions of all available actions on objects.

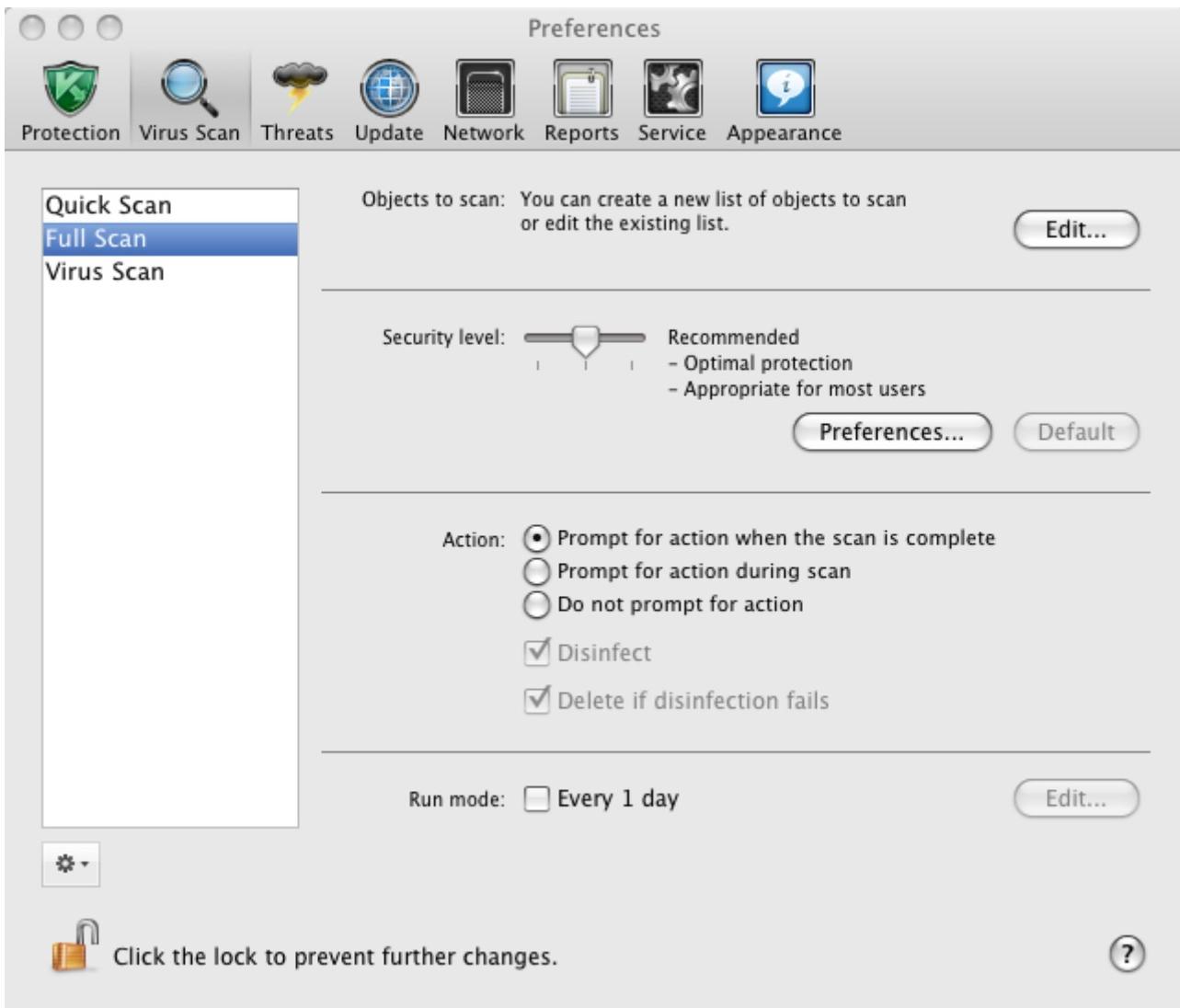


Figure 33: Application settings window. Full scan task

Table 2. Descriptions of all available actions on objects

If the action you have selected is...	... when an infected or potentially infected object is detected:
Prompt for action when the scan is complete	The application postpones the processing of objects to the end of the scan. When the scan is complete, the reports window (see section "The Detected tab" on page 83) will be displayed on screen with a list of infected and potentially infected objects detected, and you will be asked if you want to process the objects.
Prompt for action during scan	After each detection of a dangerous object Kaspersky Anti-Virus will display a warning message with the information about which malicious code has infected (potentially infected) the file, and offers you the choice of the following actions. These actions may vary depending on the object's status.

If the action you have selected is...	... when an infected or potentially infected object is detected:
Do not prompt for action	Kaspersky Anti-Virus records information about detected objects in the report without processing them. We do not recommend enabling this operation mode since infected and potentially infected objects persist on your computer and it is practically impossible to avoid infection.
Do not prompt for action Disinfect	Kaspersky Anti-Virus attempts to disinfect infected objects without prompting the user for confirmation. If the object is successfully disinfected, it becomes accessible to the user. If the object cannot be disinfected, its location will not be changed. If the object cannot be disinfected, its location will not be changed. Relevant information is logged in the report (see section "Reports" on page 81). To gain access to an object, objects in the report should be processed. When a potentially infected object is detected, the application blocks access to it and quarantines it (on page 75).
Do not prompt for action Disinfect Delete if disinfection fails	Kaspersky Anti-Virus attempts to disinfect detected objects without prompting the user for confirmation. If the object is successfully disinfected, it becomes accessible to the user. If the object cannot be disinfected, it will be deleted.
Do not prompt for action Delete	Kaspersky Anti-Virus deletes the object.

Before disinfecting the object or deleting it, Kaspersky Anti-Virus creates a backup copy and places it to the backup (on page [78](#)) in case the object will need to be restored, or it becomes possible to disinfect it.

CONFIGURING THE SCAN TASK SCHEDULE

You can run any virus scan task manually or automatically using a schedule (see section "Managing virus scan tasks" on page [43](#)). To run a scheduled task, check the box with the description of task autorun conditions in the **Run mode** section. Task run settings can be edited in the **Schedule** window accessible using the **Edit** button.

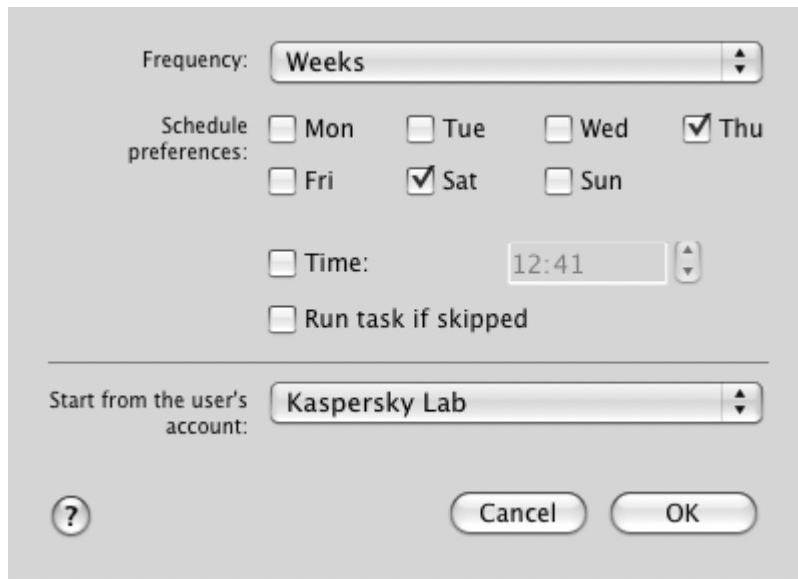


Figure 34: Configuring the task schedule

The most important step is to determine the startup frequency set for the virus scan task. You can select one of the following options:

- **Minutes.** The interval between scan task startups is measured in minutes. Enter the number of minutes between scan startups in the schedule settings (the value should be specified in range from 5 to 59 minutes).
- **Hours.** The interval between scan startups is measured in hours. Specify the interval in the schedule settings as **Every N-th hour** and specify the value of **N**. For example, to run the task every hour, enter **Every 1 hour**.
- **Days.** The time between scan startups is measured in days. In the schedule settings, specify the update start frequency. Also, in the **Time** field, specify what time of day or night the task will run.
- **Weeks.** The task will run on certain days of week. If this option is selected, in the schedule settings check the boxes for the days of the week on which you want the scan task to run. Specify the start time in the **Time** field.
- **Months.** The task will run once a month at the specified time.
- **At a specified time.** The task will run once at the date and time that you have specified.
- **At application startup.** The task starts every time that Kaspersky Anti-Virus starts. You can also set an interval between the application startup and the task startup.
- **After every update.** The task starts after each update of the application databases.

If a scan update did not start for any reason (for example, the computer was shut down at that time), you can configure the missed task to start automatically as soon as it becomes possible. To do this, check the **Run task if skipped** box in the schedule window.

RUNNING SCAN TASKS UNDER THE USER ACCOUNT

The option of running tasks under different user account is implemented in the application. This service is disabled by default and tasks are started under the current account, with which you are registered in OS.

For example, running the scan task can require access rights to the object being scanned. Using this service you can configure running a task under the account of the user, possessing the necessary privileges.

► To specify an account, please do the following:

1. Open the application settings window (on page [15](#)), open the **Virus Scan** tab, and select the **Virus Scan** task in the list (see figure below).

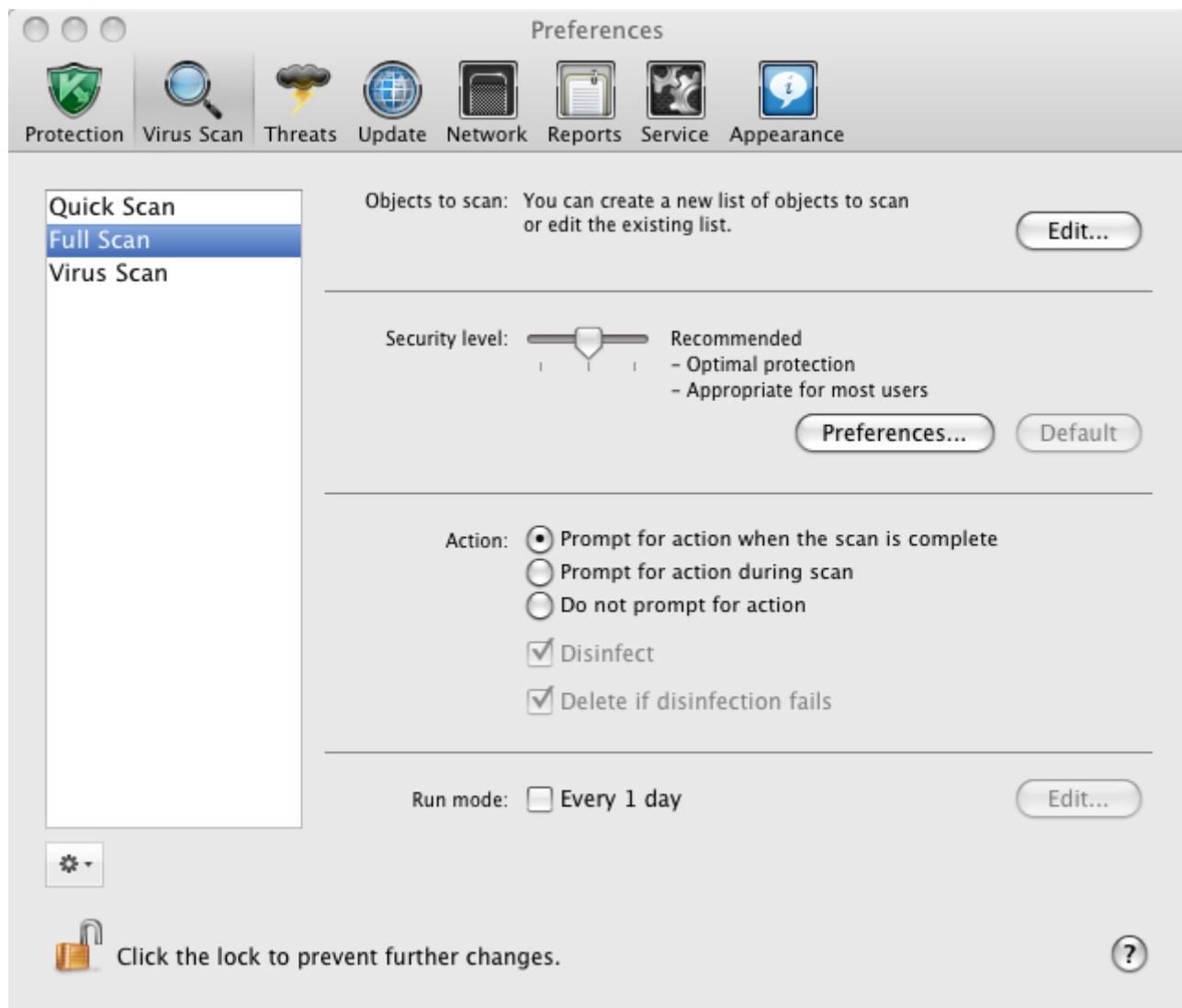


Figure 35: Application settings window. Full scan task

2. Enable task running by the schedule in the **Run mode** section and click the **Edit** button.

3. In the schedule configuring window (see figure below) in the **Start from the user's account** select the account under which the task will be started from the Drop-down menu.

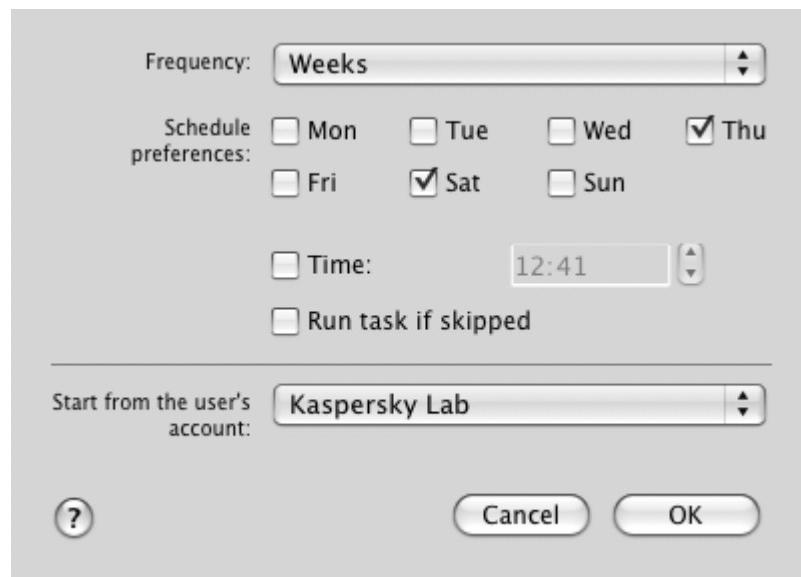


Figure 36: Configuring the task schedule

ASSIGNING UNIFORM SCAN SETTINGS TO ALL TASKS

Each scan task is performed according to its own settings. By default, all tasks created when installing Kaspersky Anti-Virus on your computer use the settings recommended by Kaspersky Lab.

You can specify uniform scan settings for all tasks, by starting with the **Virus Scan** task settings, used to scan an individual object.

► To assign uniform scan settings for all tasks:

1. Open the application settings window (on page [15](#)), open the **Virus Scan** tab, and select the **Virus Scan** task in the list (see figure below).

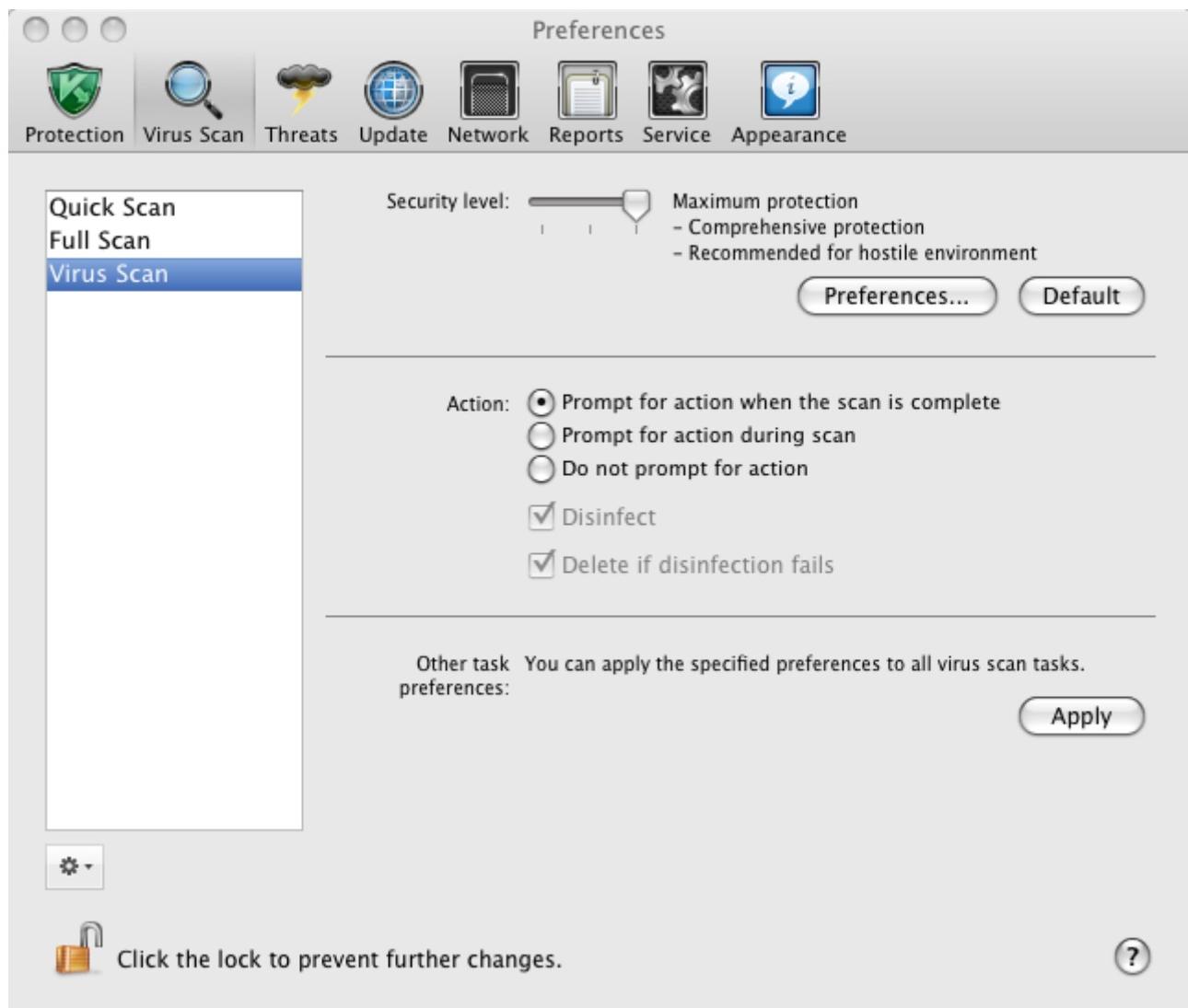


Figure 37: Application settings window. Scanning for viruses

2. To modify the scan settings, select the security level (see section "Selecting a security level" on page [48](#)), configure advanced level settings, and select an action on objects (see section "Selecting actions on objects" on page [52](#)).
3. To apply these settings to all tasks, click the **Apply** button in the **Other task preferences** section. Confirm the uniform settings that you have modified in the confirmation request window.

RESTORING DEFAULT SCAN SETTINGS

When modifying task settings, it is always possible to return to the default settings. Kaspersky Lab experts consider these settings to be optimal and have collected them in the **Recommended** protection level.

► To restore default scan settings:

1. Open the application settings window (on page [15](#)), select the **Virus Scan** tab, and then select the required task.

2. Click the **Default** button in the **Security level** section (see the figure below).

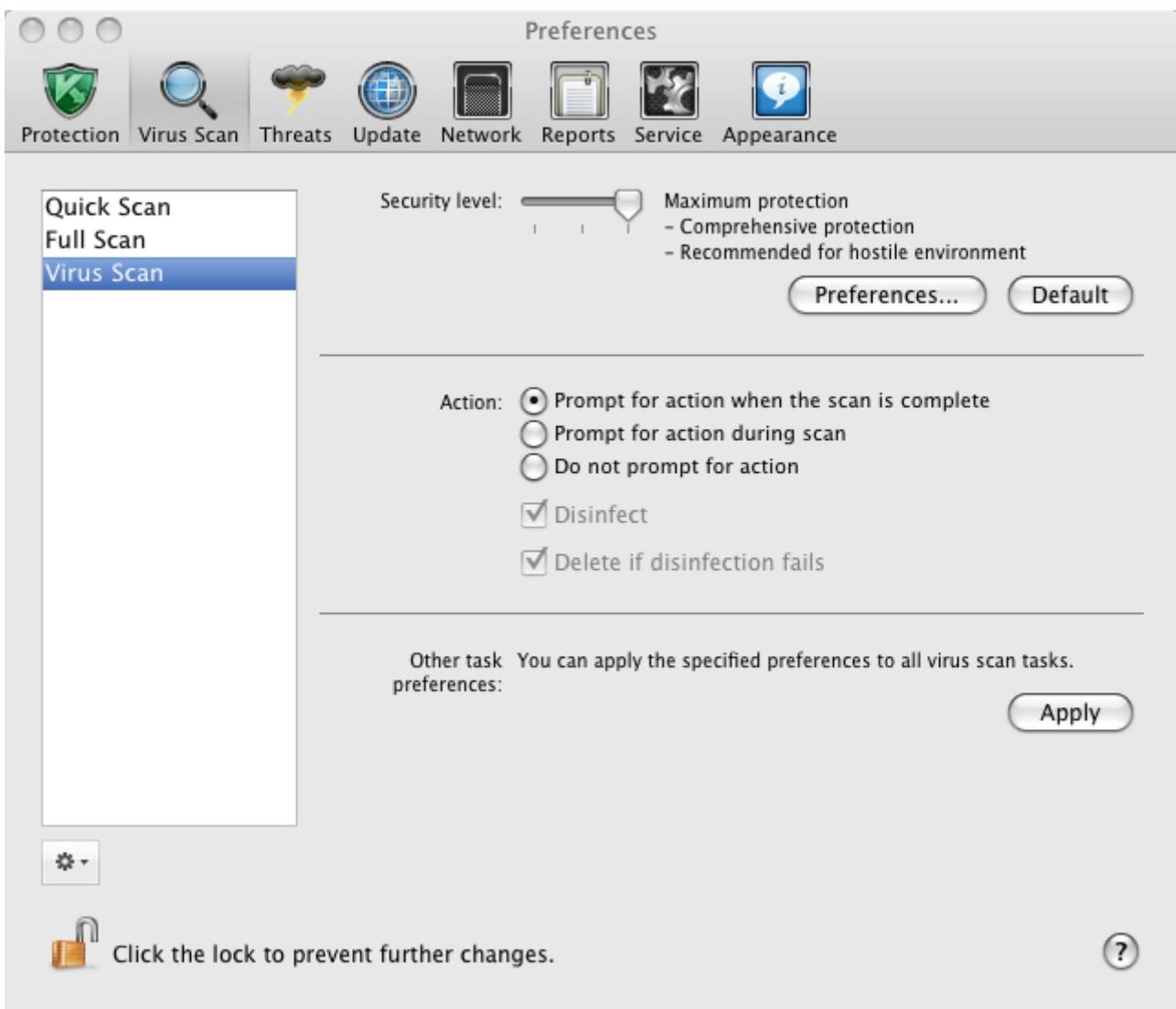


Figure 38: Application settings window. Scanning for viruses

VIRUS SCAN STATISTICS

You can view the information on results of Virus Scan in the **Completed tasks** section of the report (see section "Reports" on page [81](#)) on application operation. If the task is being executed at the present moment, brief information about it is displayed in the main window (see section "Main application window" on page [13](#)). To view a detailed report on current task performance, open the report window and select the necessary task from the **Running tasks** section.

Information about the progress of the task is displayed in the lower part of the window. If everything is successful, the summary statistics of task execution results will be displayed. These statistics contain the information on the number of objects scanned, number of malicious objects detected and objects needing to be processed. Scan start time, estimated completion time, and duration are also displayed.

If any errors occur during the scan, run the task again. If the attempt returns an error, contact the Technical Support Service (see section "Contacting Technical Support" on page [9](#)).

General information on the scan results is grouped on the following tabs:

- All dangerous objects detected during the task are listed on the **Detected** tab (see section "The Detected tab" on page [83](#)). The tab contains the full path to the location of each object and the status assigned to the

object by Kaspersky Anti-Virus: if the malicious program that has infected the object is revealed, this object is assigned the corresponding status. For example, *virus*, *Trojan*, etc. If the type of malicious effect cannot be exactly established, the object is assigned the status of suspicious. Next to the status, the action taken on the object is specified (*detected*, *not found*, *disinfected*).

- The **Events** tab shows the complete list of events that have occurred during task execution (see section "The Events tab" on page [84](#)). The events can have the following statuses:
 - *information event* - for example, object not processed: skipped by type;
 - *warning* - for example, a virus is detected;
 - *note* - for example: archive is password-protected.
- **Statistics** appear on the corresponding tab (see section "The Statistics tab" on page [84](#)). Here you will find the total number of scanned objects, and further columns show how many archives, dangerous objects, disinfected objects, quarantined objects etc have been processed out of the total number of objects scanned.
- **Preferences** of task execution are displayed on the tab with the same name (see section "The Preferences tab" on page [86](#)). To switch to task settings quickly, click the **Change preferences** button.

UPDATING THE APPLICATION

Keeping protection up-to-date is a key to reliably protecting your computer. As new viruses, Trojans, and malicious software emerge daily, it is extremely important to update the application regularly to keep your data permanently protected.

Kaspersky Anti-Virus update implies that the following components will be downloaded and installed on your computer:

- **Application databases**

Protection of information stored on the computer is ensured thanks to databases. File Anti-Virus and virus scan tasks use databases when they scan for dangerous objects on your computer and disinfect them. The databases are hourly renewed with records of new threats and methods of fighting them. Therefore, it is recommended to update them on a regular basis.

- **Application modules**

In addition to the databases, you can update the internal modules of Kaspersky Anti-Virus. Update packages are regularly released by Kaspersky Lab.

Special Kaspersky Lab update servers are the primary update source for Kaspersky Anti-Virus.

Your computer should be connected to the Internet to successfully download updates from servers. If the Internet connection is ensured by a proxy server, you will need to configure connection settings (see section "Configuring proxy server settings" on page [69](#)).

Updates can be downloaded in one of the following modes:

- *Automatically*. Kaspersky Anti-Virus checks for an update package in the update source at time intervals you have set. During virus outbreaks, the check frequency may increase, and decrease when they are gone. If Kaspersky Anti-Virus detects new updates, it downloads and installs them on the computer. This is the default mode.
- *By schedule*. Kaspersky Anti-Virus is updated according to a specified schedule.
- *Manually*. You launch the updating procedure manually.

When the update is in progress, the application modules and databases on your computer are compared against those at the update source. If your computer has the most recent version of databases and application modules installed, you will see a message confirming that the protection of your computer is up-to-date. If databases and modules on your computer and those on the update server differ, the application downloads only the missing part of the updates. Databases and modules are not downloaded in their entirety; this significantly increases the speed of updating and reduces Internet traffic.

Before updating the application databases, Kaspersky Anti-Virus creates backup copies of them; these backup copies can be used if you want to use them again for any reason. You might need the rollback (see section "Rolling back the latest update" on page [62](#)) option, for example, if you have updated the databases and they have been corrupted during the operation. You can easily roll back to the previous version of databases and try to update them again.

You can distribute downloaded updates to a local source while updating Kaspersky Anti-Virus (see section "Update distribution" on page [67](#)). This feature enables you to update databases and modules used by the application on networked computers to reduce internet traffic.

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STARTING THE UPDATE

Application updates keep your computer's protection up-to-date. If you do not perform updates for some time, the protection of your data becomes out of date.

The main application window displays summary information on the application update (see section "Main application window" on page [13](#)). Here you can see the database release date and the number of records in the databases installed on your computer. The number of records is the number of threats from which your computer is now protected. You will also see a status that informs you if the databases in use are up-to-date.



You can start Kaspersky Anti-Virus updates at any time. To do this, click the globe icon in the main window. To view a detailed report on current task performance, open the report window.

Updates will also be distributed to the local source during the update process (see section "Update distribution" on page [67](#)), provided that this service is enabled.

ROLLING BACK THE LATEST UPDATE

Every time you run the application update, Kaspersky Anti-Virus first creates a backup copy of the databases and application modules in use, and only after that starts updating them. This allows you to roll back to the previous version of databases if the update fails.

► *To roll back to the previous database version:*

1. Open the application settings window (on page [15](#)) and select the **Update** section (see figure below).

2. Click the **Roll back update** button.

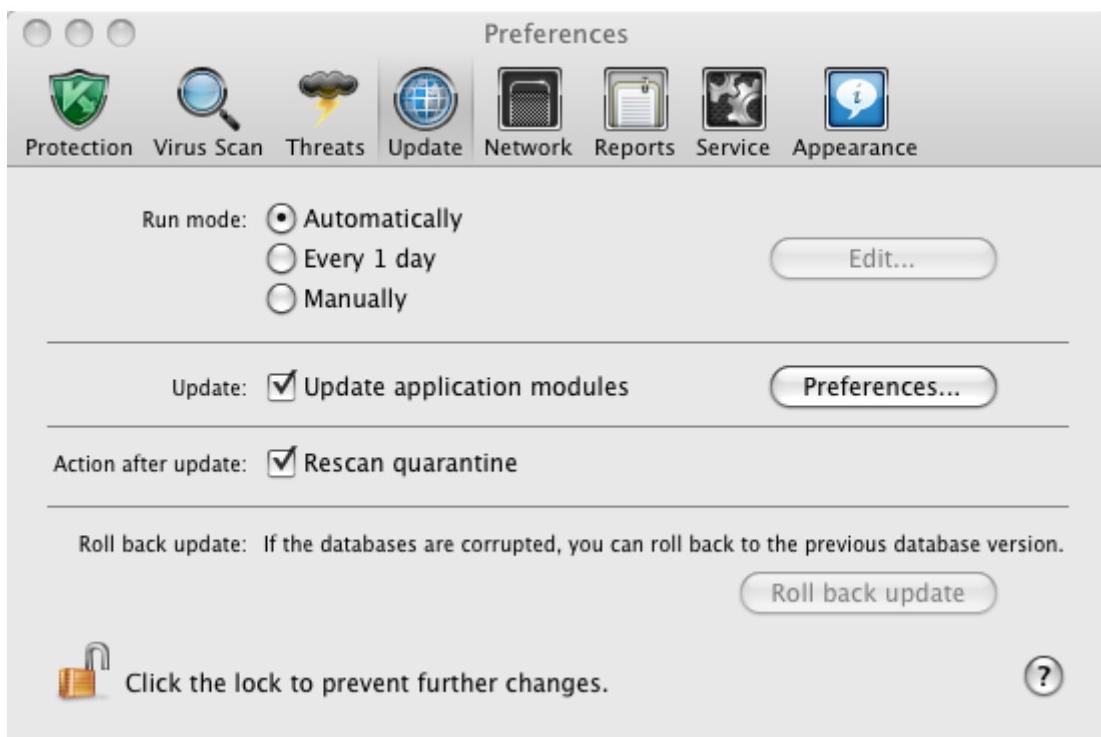


Figure 39: Application settings window. Update

CONFIGURING THE UPDATE

Kaspersky Anti-Virus will only be updated in accord with the following settings:

- **Update source.**

Update source is a resource that contains the latest database and module files for Kaspersky Anti-Virus. Update sources (see section "Selecting an update source" on page [64](#)) can be HTTP and FTP servers, local or network folders.

- **Update objects.**

Update objects are the components that will be updated: applications databases, application modules. Application databases are always updated, and the application modules are only updated if the corresponding mode is enabled (see section "Selecting the update mode and objects" on page [65](#)).

- **Update mode.**

Update mode determines whether the update will be launched automatically (recommended by Kaspersky Lab specialists), manually, or according to a schedule. If you select the latter (see section "Selecting the update mode and objects" on page [65](#)) you will have to assign schedule settings for the launch.

- **Update distribution.**

The update distribution option (see section "Update distribution" on page [67](#)) allows you to save the updates you have downloaded from the Internet in a local folder and grant access to them to other computers on your network to save Internet traffic.

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SELECTING AN UPDATE SOURCE

Update source is a resource that contains the updates for databases and internal modules of Kaspersky Anti-Virus. Update sources can be HTTP and FTP servers, local or network folders.

Kaspersky Lab update servers are the main source of updates. These are special websites where updates for databases and internal modules of all Kaspersky Lab products are stored.

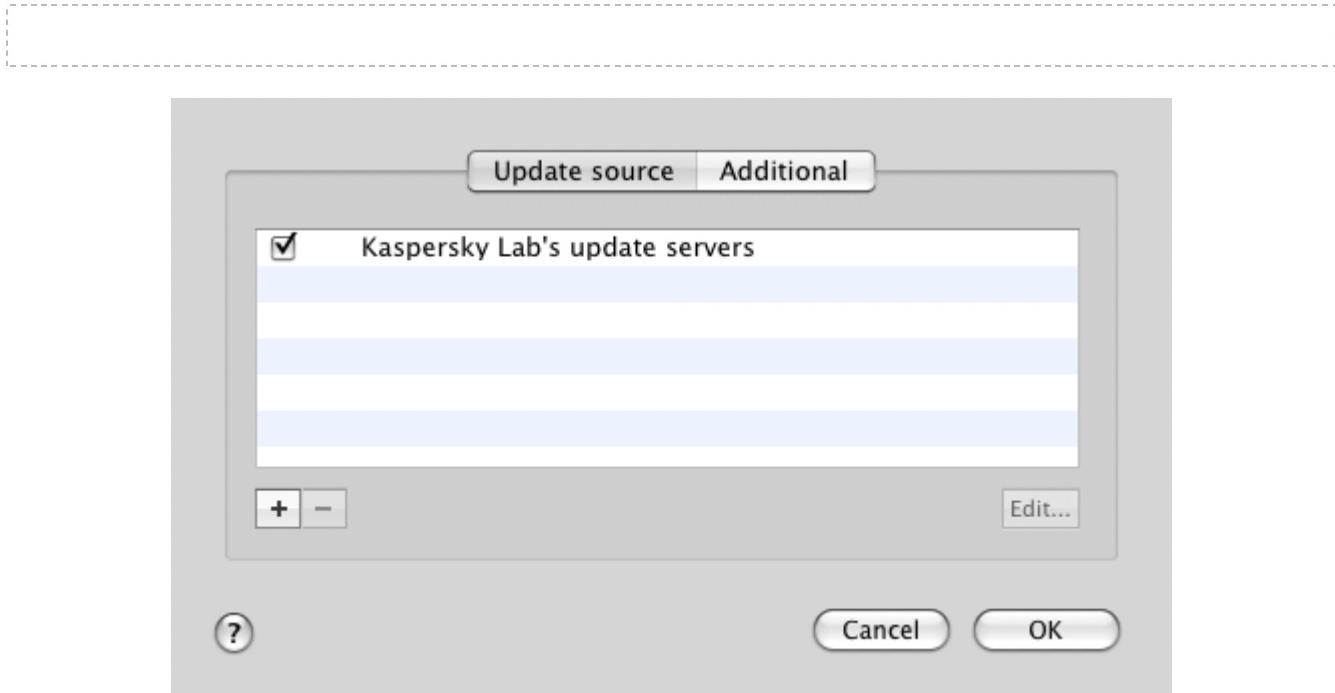


Figure 40: Selecting an update source

► *To assign an update source:*

1. Open the application settings window (on page [15](#)) and select the **Update** tab.
2. Click the **Preferences** button in the **Update** section.
3. In the window that opens, go to the **Update source** tab (see figure above).

By default, the list contains only Kaspersky Lab update servers. When the update is in progress, Kaspersky Anti-Virus accesses this list, selects the address of the first server, and tries to download updates from this server. If updates cannot be downloaded from the selected server, the application tries to connect and retrieve the updates from the next server.

You can edit the source list using the  button to add a new source and the  button to remove a source from the list. When adding a new source, it is admissible to specify the path to a folder that contains the set of updates, or the address of an FTP/HTTP site. Kaspersky Anti-Virus adds a new update source to the top of the list and automatically marks this source as enabled by checking the box next to it.

Click the **Edit** button to edit a source that you have selected from the list. The only type of sources you cannot edit or delete are Kaspersky Lab update servers.

If you select a resource outside the LAN as an update source, you should have an Internet connection established to perform an update.

SELECTING THE UPDATE MODE AND OBJECTS

When configuring Kaspersky Anti-Virus update settings, it is important to define the update mode and objects.

Update objects are the components that will be updated: applications databases, application modules. Databases are always updated, and the application modules are only updated if the corresponding mode is enabled.

- ▶ If you want to download and install updates for Kaspersky Anti-Virus modules on your computer when the update is in progress,

open the application settings window (on page 15), select the **Update** tab (see figure below), and check the **Update application modules** box in the **Update** section.

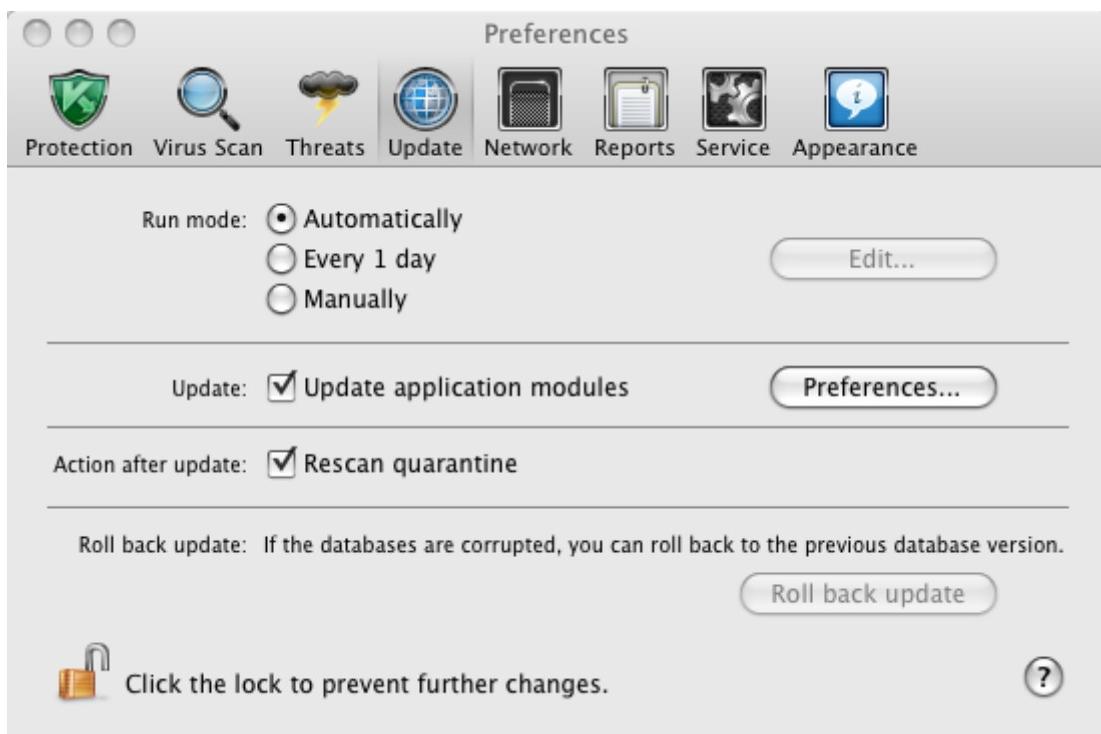


Figure 41: Application settings window. Update

If there are currently module updates on the update source, Kaspersky Anti-Virus will download the required updates and apply them after the computer restarts. The downloaded module updates will not be installed until the computer restarts.

If the next application update occurs before the computer restarts and the program module updates downloaded earlier are installed, only the databases will be updated.

Update mode determines how the update is launched. One of the following modes can be selected in the **Run mode** section (see the figure above):

- **Automatically.** Kaspersky Anti-Virus checks for an update package in the update source at the set time intervals (see section "Selecting an update source" on page [64](#)). If Kaspersky Anti-Virus detects new updates, it downloads and installs them on the computer. This update mode is used by default.

The next attempt to update will be performed by Kaspersky Anti-Virus after the interval specified in the previous update package has elapsed. This option can regulate the update frequency in case of virus outbreaks and other potentially dangerous situations. Kaspersky Anti-Virus will receive the latest updates for the databases and modules in timely fashion, so malware cannot penetrate your computer.

- **On schedule.** Kaspersky Anti-Virus is updated according to a specified schedule. If you would like to switch to this update mode, you will be offered to run the update on a daily basis by default. To create a custom schedule (see section "Configuring the update task schedule" on page [66](#)), click the **Edit** button next to the mode title and make the required changes in the window that opens.
- **Manually.** You launch the updating procedure manually. Kaspersky Anti-Virus notifies you when an update is required.

CONFIGURING THE UPDATE TASK SCHEDULE

Kaspersky Anti-Virus is automatically updated by default. If this schedule does not suit you, set the update start settings manually.

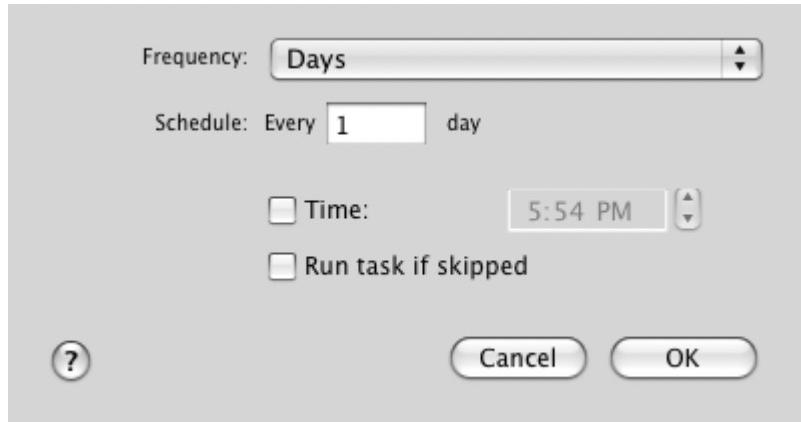


Figure 42: Configuring the update task schedule

The most important step is to determine the frequency of running the update task. You can select one of the following options:

- **Minutes.** The application is updated every few minutes. Enter the number of minutes between scan startups in the schedule settings (the value should be specified in range from 5 to 59 minutes).
- **Hours.** Update frequency is calculated in hours. Specify the interval in the schedule settings as **Every N-th hour** and specify the value of **N**. For example, to download updates every hour, select **Every 1 hour**.
- **Days.** The time between scan startups is measured in days. In the schedule settings, specify the update start frequency. Also, in the **Time** field, specify what time of day or night the task will run.
- **Weeks.** The application is updated on certain days of the week. If this option is selected, in the schedule settings check the boxes for the days of the week on which you want the scan task to run. Specify the time in the **Time** field.

- **Months.** The task will run once a month at the specified time.
- **At a specified time.** The task will run once at the date and time that you have specified.
- **At application startup.** The task starts every time that Kaspersky Anti-Virus starts. You can also set an interval between the application startup and the task startup.

If a scan update did not start for any reason (for example, the computer was shut down at that time), you can configure the missed task to start automatically as soon as it becomes possible. To do this, check the **Run task if skipped** box in the schedule window.

UPDATE DISTRIBUTION

If your computers are linked in a LAN, updates do not need to be downloaded and installed on each of them individually since this will increase network traffic. Use the update distribution service to save Internet traffic. To do this, set up update distribution as follows:

1. One of the computers on the network retrieves the Kaspersky Anti-Virus update package from the Kaspersky Lab web servers or from another web resource hosting the current set of updates. The updates retrieved are placed in a shared folder.
2. Other networked computers access the shared folder to retrieve updates.

► *To connect to the update distribution service:*

1. Open the application settings window (on page [15](#)) and select the **Update** section (see figure below).

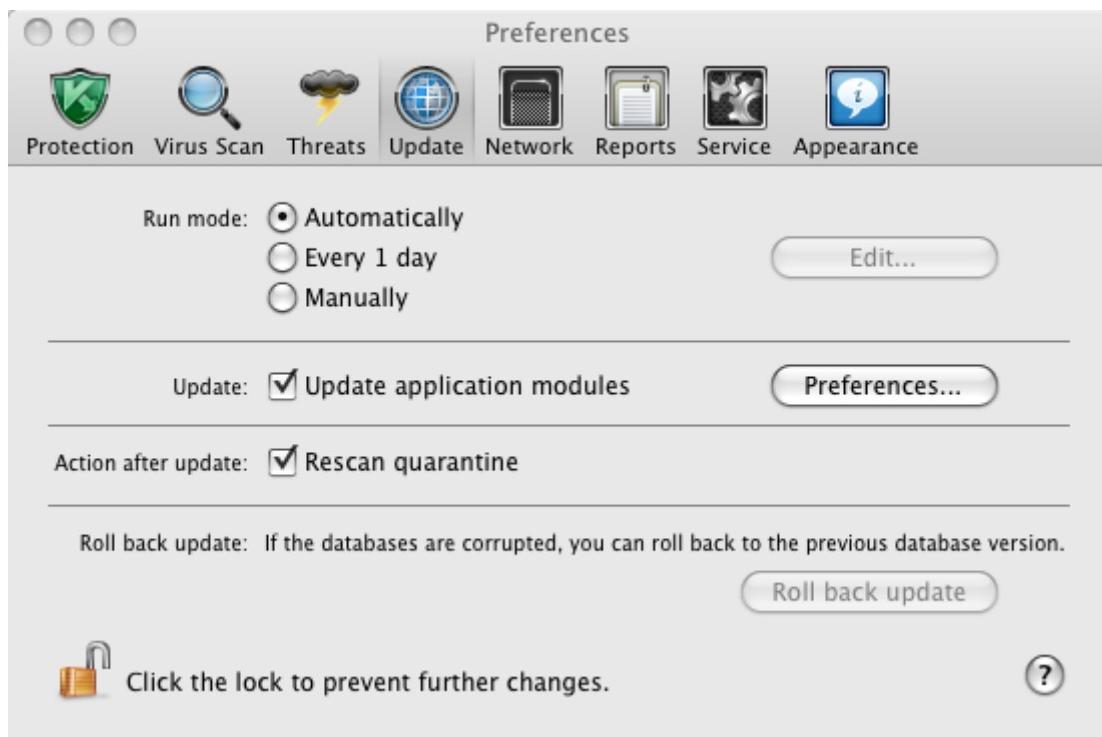


Figure 43: Application settings window. Update

2. Click the **Preferences** button in the **Update** section.
3. In the window that opens, select the **Additional** tab (see the figure below). Check the **Copy updates to folder** box, and specify the shared folder where retrieved updates will be placed, in the field below. You can enter the path manually or select it in the window that opens by clicking the **Select** button. If the box is checked, updates will automatically be copied to this folder when they are retrieved.

Kaspersky Anti-Virus only retrieves its own update package from Kaspersky Lab's servers.

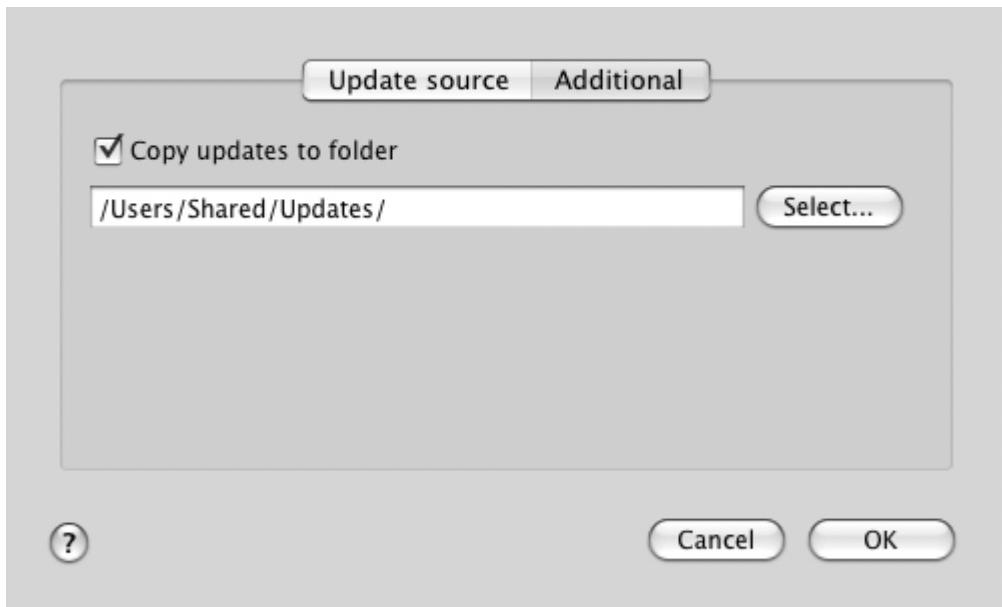


Figure 44: Configuring update distribution service

► If you want other computers on the network to update from the folder containing updates copied from the Internet, you should do the following:

1. Grant public access to this folder.
2. Specify the shared folder as the update source on the networked computers in the update service settings.

ACTIONS AFTER UPDATE

Every Kaspersky Anti-Virus database update contains new records that protect your computer from the most recent threats. Kaspersky Lab experts recommend that you scan the quarantined objects each time after the database is updated (on page [75](#)). Why should these objects be scanned?

Quarantine contains objects for which the malware that had caused the infection has not been identified. It is possible that after the database update Kaspersky Anti-Virus may be able to identify the threat and eliminate it.

Kaspersky Anti-Virus scans quarantined objects after each update by default. If an object still has the potentially infected status, it will remain in the storage. If the status changes to infected, the object will be processed according to the action selected; it will be removed from quarantine, and a copy of it will be placed into the backup storage (see page [78](#)). If the scan proves that an object is not infected and the databases have been updated within the last three days, the object will be restored from the storage to its current location. If more than three days have passed since the most recent database update, the object will remain in the storage.

► To cancel the scan of objects in quarantine:

1. Open the application settings window (on page [15](#)) and select the **Update** section (see figure below).

2. Uncheck the **Rescan quarantine** box in the **Action after update** section.

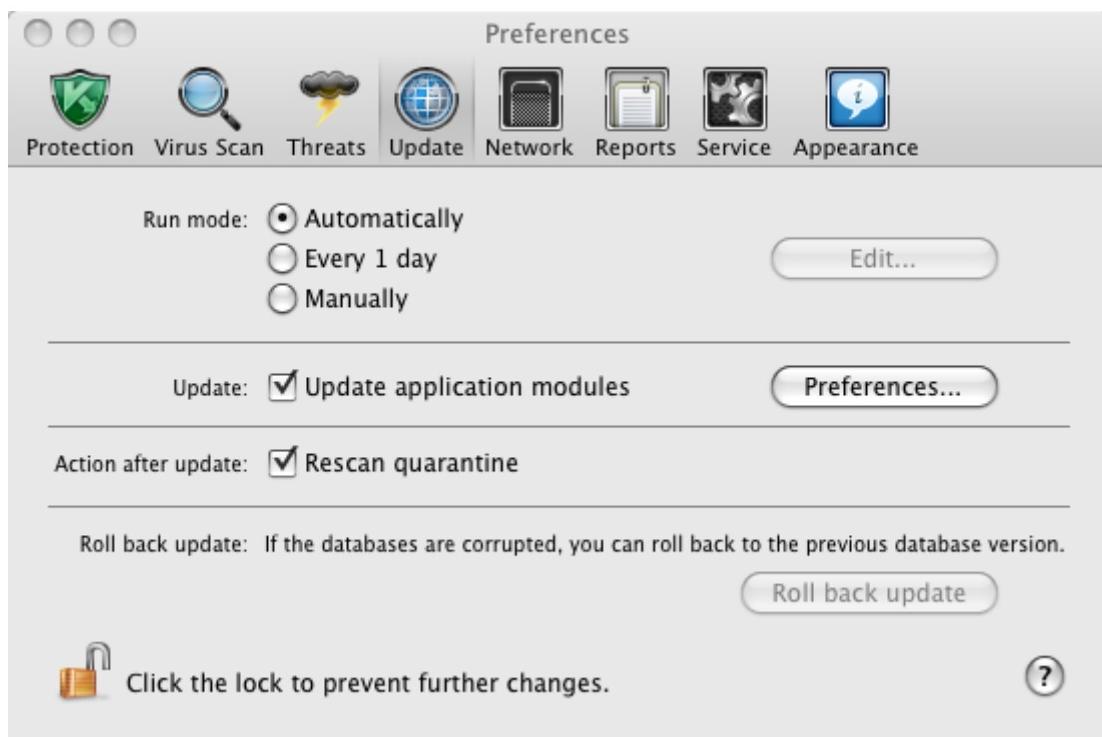


Figure 45: Application settings window. Update

CONFIGURING PROXY SERVER SETTINGS

If you use a proxy server to establish the Internet connection, you will need to configure connection settings. Kaspersky Anti-Virus uses these settings to update the databases and modules.

► To configure the proxy server settings:

1. Open the application settings window (on page [15](#)) and select the **Network** tab (see figure below).

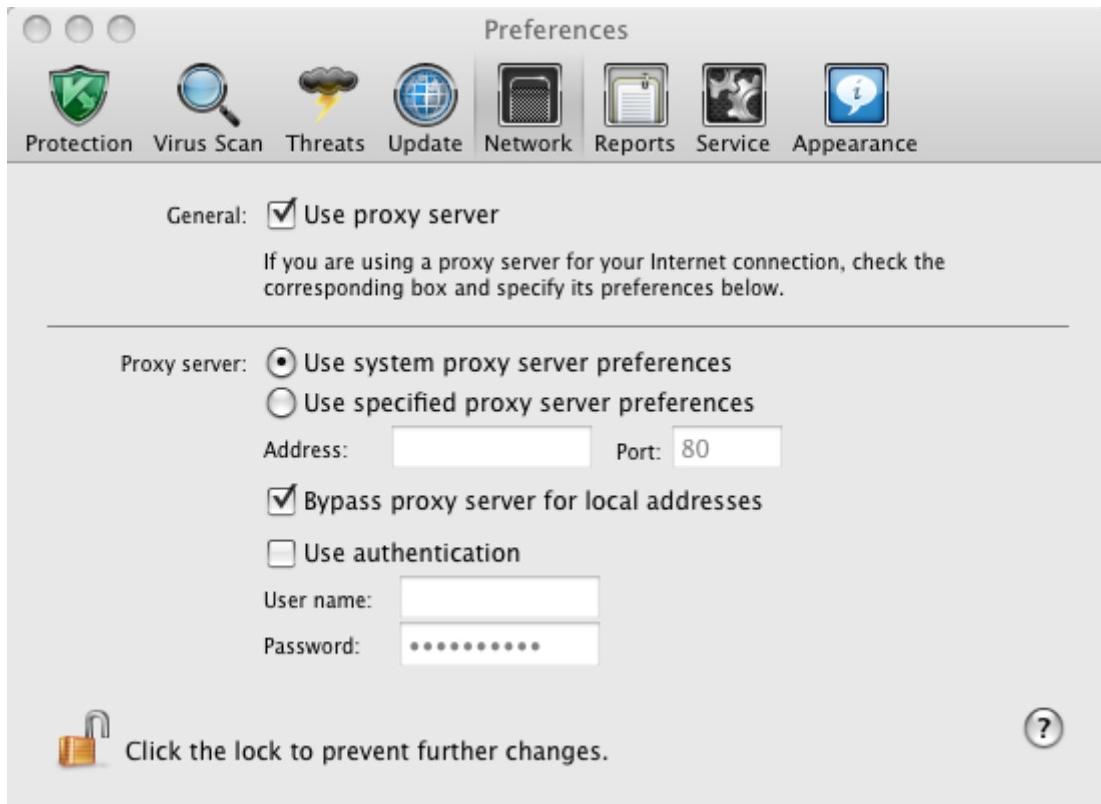


Figure 46: Application settings window. Network

2. Check the **Use proxy server** box and specify which proxy server settings you need to use:

- **Use system proxy server preferences** - if this option is selected, Kaspersky Anti-Virus uses the proxy server settings specified in the MAC OS settings.
- **Use specified proxy server preferences** - use a proxy server different from that specified in the Mac OS settings. In the **Address** field, enter either the IP address or the character name of a proxy server, and specify the proxy server port in the **Port** field.

To exclude the use of a proxy server when updating from a local or network folder, check the **Bypass proxy server for local addresses** box.

3. Specify if authentication is required on the proxy server. *Authentication* is the procedure of verifying user registration data for access control purposes.

If the authentication is required to connect to the proxy server, check the **Use authentication** box and specify the username and password in the fields below.

If the proxy server requires authentication and you did not enter a username and password or the data specified was not accepted by the proxy server for some reason, a window will open, asking for a username and password for authentication. If the authentication has been successful, the specified username and password will be remembered for subsequent use (if you check the **Remember this password** box). Otherwise, the authentication settings will be requested again.

When you click the **Cancel** button, the current update source in the authentication settings request window will be replaced with the following one on the list. Authentication settings specified in the current window or mentioned in the application interface will be ignored.

If you are downloading the update from an FTP server, the server is connected to in passive mode by default. If this connection fails, it will attempt to connect in active mode.

By default, the time assigned to connect to an update server is one minute. If the connection fails, once this time has elapsed, the application will attempt to connect to the next update server. This continues until a connection is successfully established, or until all the available update servers are attempted.

UPDATE STATISTICS

Some statistics regarding current performance of the update service (release date for the databases used by the application, number of records in the databases, update status) are displayed in the main application window (see section "Main application window" on page [13](#)).

If you have never updated Kaspersky Anti-Virus, there will be no information about the most recent update.

You can view the information on results of previous updates in the **Completed tasks** section of the report on application operation (see section "Reports" on page [81](#)). If an update is being executed at the present moment, brief information about it is displayed in the main window. To view a detailed report on current task performance, open the report window and select the **Update** task from the **Running tasks** section.

The lower part of the update task report window contains the information on whether the procedure has been completed successfully or not. If the update is completed successfully, the window will display brief statistics giving information about the size of updates distributed and installed, the speed of update execution, the length of procedure, and other information.

If the operation fails, make sure that the settings for the update service are correct and that the update source is available. Restart the update. If the attempt returns an error, contact the Technical Support Service (see section "Contacting Technical Support" on page [9](#)).

The description of all operations performed during updating is displayed in the main part of the report on the **Events** tab (see section "The Events tab" on page [84](#)). There you can view which files have been distributed and which ones have been replaced.

The settings used to manage the update are listed on the tab with the same name (see section "The Preferences tab" on page [86](#)). To switch to editing the component settings, use the **Change preferences** button.

LICENSE MANAGEMENT

Ability to use Kaspersky Anti-Virus is determined by a license obtained by purchasing the product and granting you the right to use the application as soon as you install your license.

Without a license, unless a trial version has been activated, Kaspersky Anti-Virus will run in one-update mode. The application will not download any new updates. If a trial version has been activated, after the trial period expires, Kaspersky Anti-Virus will not run.

When the license expires, the program will continue working but you will not be able to update application databases. As before, you will be able to scan your computer for viruses and use File Anti-Virus but using only the databases that you had when the license expired. We cannot guarantee that you will be protected from viruses that appear after your program license expires.

To protect your computer from infection from new viruses, we recommend that you renew your application license. Kaspersky Anti-Virus will notify you in advance of the impending expiration date of your license. The corresponding message will be displayed every time the application starts.

To view information on the license in use, open the main window of Kaspersky Anti-Virus (on page [13](#)) and click the  button. License number and type (commercial or trial), maximum number of hosts, expiration date and time, and days remaining until the expiration are all displayed in the window that opens (see the figure below).

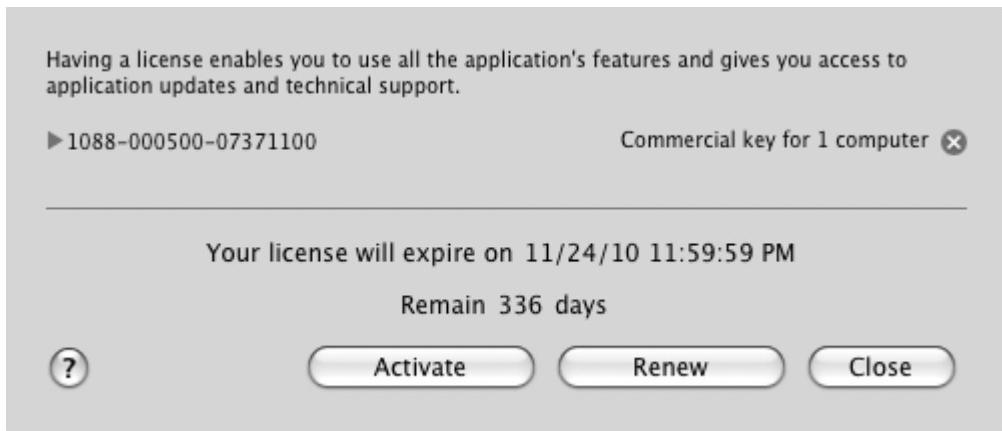


Figure 47: License management

To purchase a new license, click the **Purchase** button. The web page that opens contains all the information on purchasing a key through Kaspersky Lab eStore or corporate partners.

Kaspersky Lab regularly organizes special pricing offers on license renewals for our products. Check for special offers at the Kaspersky Lab website, in the **eStore** section.

If you purchase online, a key file or an activation code will be mailed to you at the address specified in the purchase order once payment has been made.

To activate Kaspersky Anti-Virus using the activation code you have obtained or a key file, click the **Activate** button.

Before activating Kaspersky Anti-Virus, make sure that the computer's time and date settings are correct.

Activating the application requires you to install a key file, which is used to verify the license to use Kaspersky Anti-Virus.

The key contains the service information required for the application to be fully functional, and some additional data:

- support information (who provides the support, where it can be obtained);

- key name and number, and its expiration date.

The application is activated using the Activation assistant. Let us take a closer look at its steps.

SELECTING APPLICATION ACTIVATION TYPE

There are several options for activating the application, depending on whether you have a key for Kaspersky Anti-Virus or need to obtain one from a Kaspersky Lab server:

- **Activate using activation code.** Select this activation option if you purchased the full commercial version and the activation code has been sent to you. Using this activation code, you will obtain a key file which provides access to Kaspersky Anti-Virus full functionality throughout the effective term of the license agreement.
- **Use existing key file.** Activate the application using the key file obtained earlier.
- **Activate trial version.** Select this activation option if you want to install the trial version before deciding whether you will purchase the commercial version. You will be given a free license key, which will expire as stated in the license agreement for the trial version.

An Internet connection will be required if you try to activate the application with an activation code, or activate a trial version. If at the time of installation an Internet connection is unavailable, you can perform the activation later, or connect to the Internet from a different computer and obtain a key using an activation code by registering on the Kaspersky Lab Technical Support Service website.

You may postpone the product activation. To do this, click the **Cancel** button. In this case, activation will be skipped. Kaspersky Anti-Virus will be installed on your computer, and all its functions will be accessible to you, except for the update (you will be able to update the application once, after installation).

ENTERING THE ACTIVATION CODE

To activate the application, you should enter the activation code. If Kaspersky Anti-Virus was purchased via the Internet, the activation code will be sent to you by email. If you purchase a retail, boxed version of the application, the activation code will be printed on the envelope containing the installation disk.

The activation code is a sequence of numbers and letters delimited with hyphens in four groups of five symbols without spaces, for example: 11AA1-11AAA-1AA11-1A111. Please note that the activation code should only be entered in Latin characters.

RECEIVING KEY FILE

The Activation assistant connects to Kaspersky Lab's servers and sends them registration data (activation code and contact information), to be verified by the server.

If the activation code is verified, the Assistant will receive a key from the server. If you are installing a trial version of the application, the Activation assistant will receive a trial key file without needing an activation code. The file will be automatically installed to ensure the application's operability, and the activation completion window will open, showing detailed information about the key.

When this activation method is selected, Kaspersky Anti-Virus does not download a physical key file (with .key extension) from the server, but receives the relevant information to save in the operating system. To obtain a real key file, you must complete the user registration at Kaspersky Lab's website.

If the activation code is not verified, the Assistant will display this information on the screen. In this case, contact the software vendor you purchased Kaspersky Anti-Virus from, for information.

SELECTING THE KEY FILE

If you have a key file for Kaspersky Anti-Virus, the Assistant window will ask if you want to install it. To do this, use the **Select** button and select the path for the file (with the .key extension) in the standard file selection window.

Information about the current key will be displayed in the bottom part of the window, including the key number, the key type (commercial, trial, etc.), and the license key expiration date.

COMPLETING ACTIVATION

The Activation assistant will inform you that the application has been successfully activated. In addition, information about the installed key is displayed, including key number, key type (for instance, commercial or trial), and the license key's expiration date.

QUARANTINE

Quarantine is a special repository containing the objects that could have been infected with viruses.

Potentially infected objects are objects that are suspected of being infected with viruses or modifications of them.

Why are objects detected as potentially infected? It is not always possible to exactly determine whether an object is infected or not. This could be for the following reasons:

- The code of the object being analyzed resembles a known threat but is partially altered.

Kaspersky Anti-Virus databases contain the information on the threats investigated to date by Kaspersky Lab specialists. If a malicious program is modified and these changes are not yet entered into the databases, Kaspersky Anti-Virus classifies the object infected with the modified malicious program as a potentially infected object and will indicate without fail what threat this infection resembles.

- The code of the object detected resembles a malicious program by its structure; however, nothing similar is recorded in the Kaspersky Anti-Virus databases.

It is quite possible that this is a new type of threat, so Kaspersky Anti-Virus classifies that object as a potentially infected object.

A potentially infected object can be detected and quarantined in the course of Virus Scan (see section "Scanning for viruses" on page [43](#)), or by File Anti-Virus (see section "Anti-virus protection of your computer's file system" on page [30](#)).

You can quarantine an object by yourself by clicking the **Quarantine** button in the special notification window (see section "Notifications" on page [87](#)) that pops up when a potentially infected object is detected.

When you move an object to quarantine, it is moved, not copied: the object is deleted from its original location on a disk and saved in the quarantine folder. Files in quarantine are stored in a special format and are not dangerous.

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ACTIONS ON QUARANTINED OBJECTS

The total number of quarantined objects is displayed in the **Quarantine** section of the main report window (see the figure below).

► To view the storage areas:

1. Open the main application window (on page [13](#)) and click the  button.
2. In the left part of the window that opens, select **Quarantine** (see figure below). Content of the storage will be displayed in the right-hand part of the window.

You can perform the following actions on objects in quarantine:

- Quarantine files that you suspect of being infected but not detected by Kaspersky Anti-Virus. To do this, click the **Add** button and select the required file in the standard selection window. It will be added to the list with the *added by user* status.

A file moved to quarantine manually may change its status if it had been scanned using the updated databases not earlier than three days after it was scanned for the first time after being placed in quarantine. Later, the file will be restored if it is assigned the *false positive* status, or removed with a copy placed in the backup if it is considered infected.

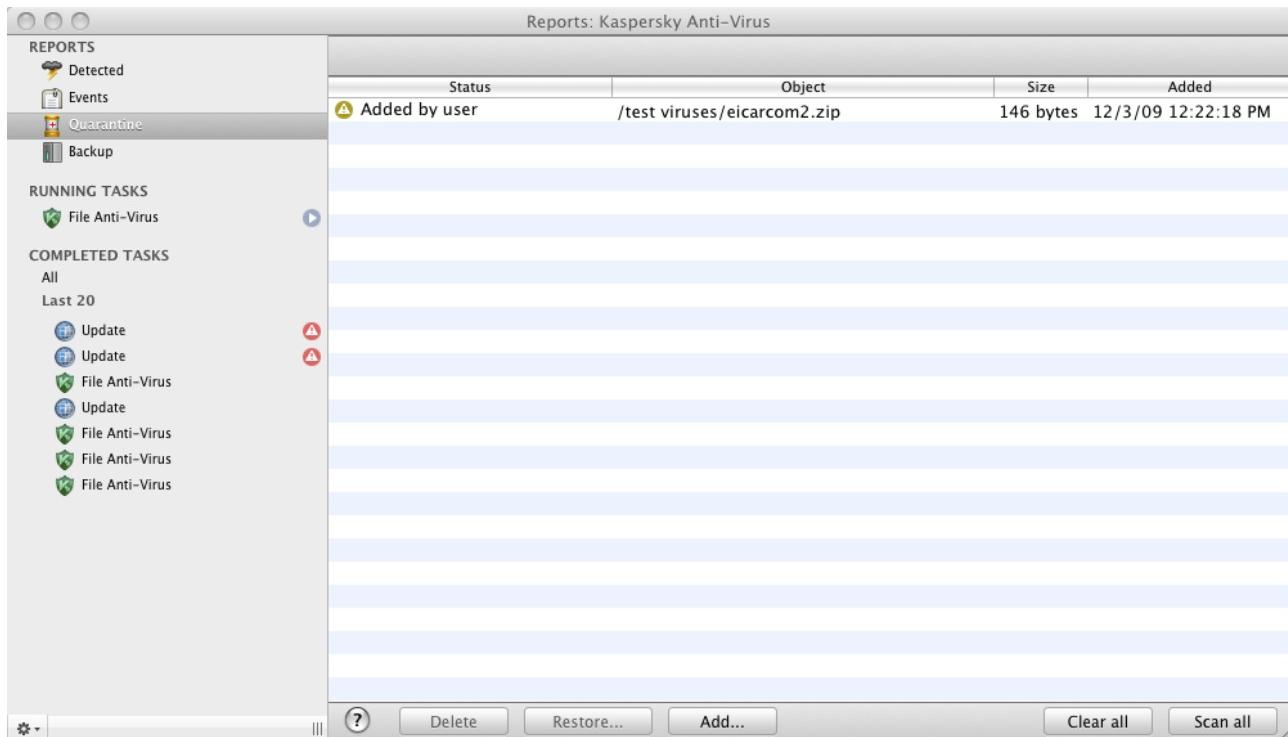


Figure 48: Quarantine storage

- Scan and disinfect all potentially infected objects in quarantine using the current Kaspersky Anti-Virus databases. To do this, click the **Scan all** button.

After scanning and disinfecting any quarantined object, its status can change to *infected*, *potentially infected*, *false operation*, *OK*, etc.

Quarantined objects' status only can change if they are scanned using the databases released not more than three days after the file has been quarantined.

The *infected* status means that the object has been identified as infected but the application did not manage to treat it. The application will remove such an object from quarantine, saving a copy of it in the backup storage (see section "Backup" on page [78](#)).

All the objects with the *false positive* status will be restored to their original locations.

- Restore files in the folder specified by the user, or in the folders from which the files were moved to quarantine (default option). To restore an object, select it from the list and click the **Restore** button. When restoring objects quarantined from archives, mail databases, and mail format files, you should also specify the directory in which they will be restored.

We recommend that you only restore objects with the *false operation*, *OK*, and *disinfected* statuses since restoring other objects may infect your computer!

- Delete any quarantined object or group of selected objects. Only delete objects that cannot be disinfected. In order to delete objects, select them in the list and click the **Delete** button. To clear the quarantine storage completely, click the **Clear all** button.

CONFIGURING QUARANTINE SETTINGS

You can configure the settings for the composition and operation of quarantine, specifically:

- Set the automatic scan mode for quarantined objects after each application database update (see section "Actions after update" on page [68](#)).

Kaspersky Anti-Virus will not be able to scan quarantined objects immediately after updating the databases if you are working with quarantine.

- Set the maximum duration for storing objects in quarantine.

By default, the term for storing objects in quarantine is 30 days; at the end of which the objects will be deleted. You can change the maximum period for storing potentially infected objects or cancel this restriction.

► *To configure the settings for storing objects in quarantine:*

1. Open the application settings window (on page [15](#)) and select the **Reports** tab (see figure below).
2. In the **Quarantine and Backup** check **Delete objects after** box and set the term for keeping objects in the storage after which they will be automatically deleted. Please note that this setting value will also apply to backup (on page [78](#)).

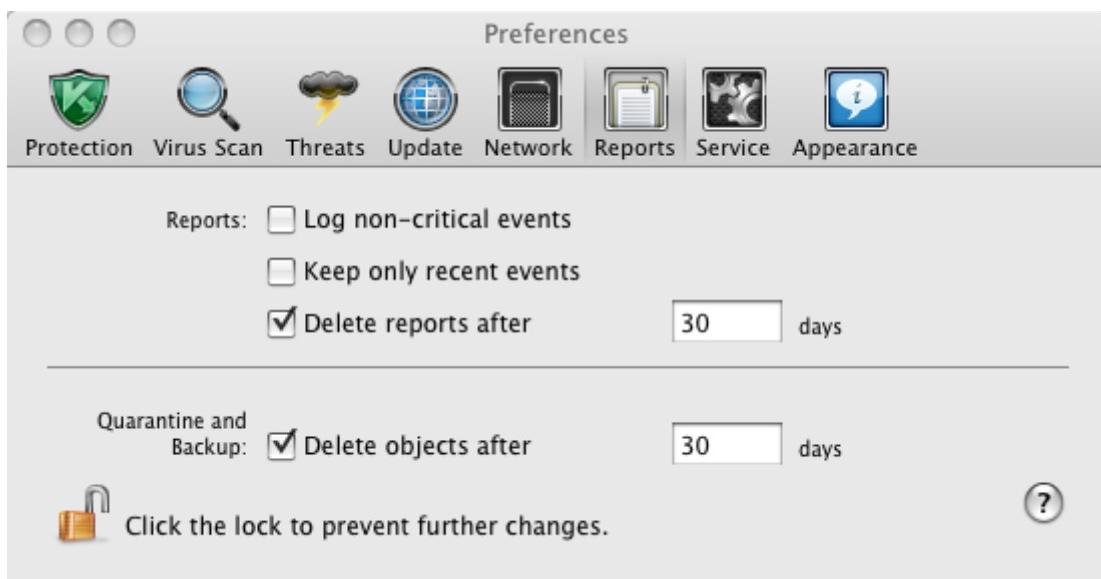


Figure 49: Application settings window. Reports

BACKUP

Sometimes, when disinfecting the objects, their integrity cannot be saved. If the disinfected file contained important information, and after disinfection it became partly or completely inaccessible, you can attempt to restore the original object from its backup copy.

Backup copy is a copy of the original dangerous object that is created when first disinfecting or deleting the object, and saved in backup.

Backup is a special repository that contains backup copies of dangerous objects subject to processing or deletion. The main function of backup is the ability to restore an original object at any time. Files in backup are saved in a special format and are not dangerous.

IN THIS SECTION:

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ACTIONS ON BACKUP COPIES

The list of backup copies of stored objects is displayed in the **Backup** section of the report window (see the figure below).

► *To view the backup areas:*

1. Open the main application window (on page [13](#)) and click the  button.
2. In the left part of the window that will open, select the **Backup** item (see the figure below). Content of the storage will be displayed in the right-hand part of the window.

A list of backup copies is displayed in the storage. The following information is provided for each copy: the full name of the object with the path to its original location, time when the object was moved to the storage, the status of the object assigned after the scan, and its size.

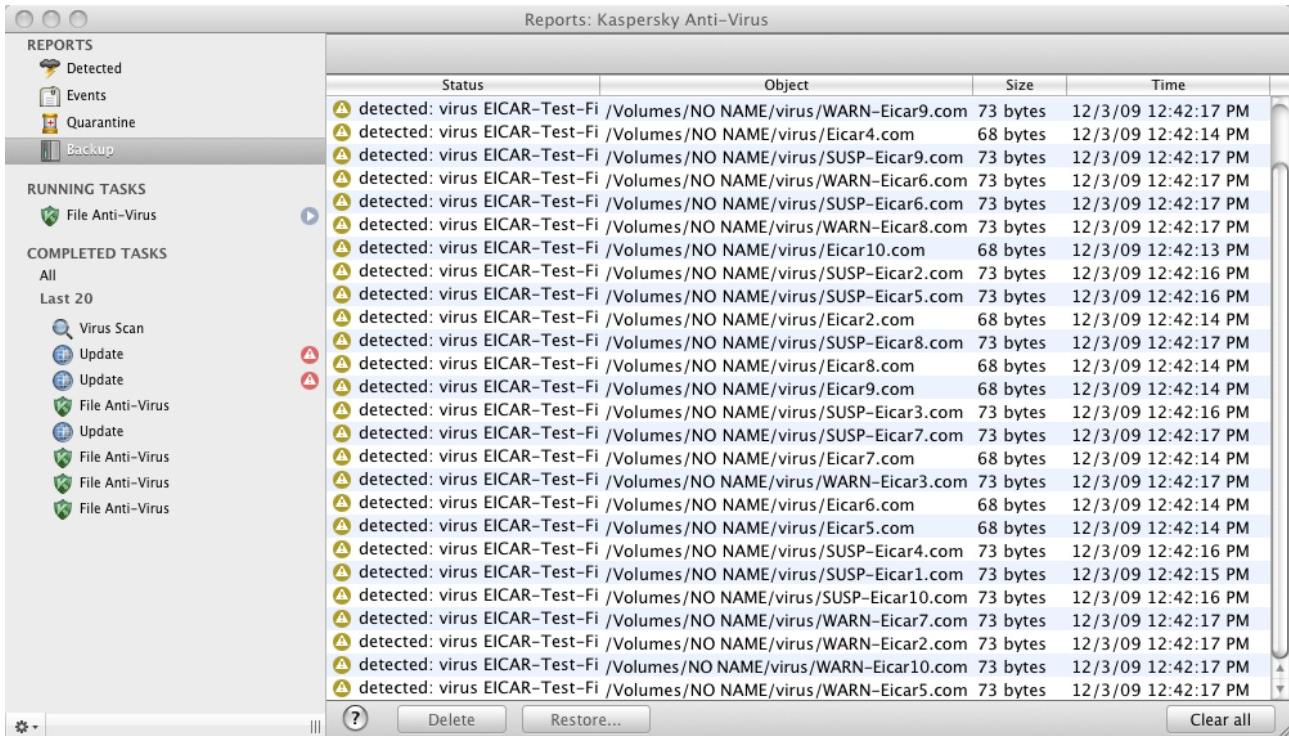
You can restore selected copies using the **Restore** button. An object is restored from the backup with the same name that it had prior to disinfection.

If there is an object with the same name in the original location (this situation is possible when restoring an object with a copy created prior to disinfection), a corresponding warning will pop up on screen. You can change the location of the object being restored, or rename it.

We recommend that you scan the object for viruses immediately after restoring it. It is possible that you will manage to disinfect it without losing its integrity using the updated databases.

We do not recommend that you restore backup copies of objects unless absolutely necessary. This could lead to an infection on your computer!

We recommend that you periodically view the repository content and clear it using the **Delete** button. To clear the backup storage completely, click the **Clear all** button. You can also set up the application so that it independently deletes the oldest copies from backup (see section "Configuring the backup settings" on page [79](#)).



The screenshot shows the Kaspersky Anti-Virus interface with the 'Backup' tab selected in the left sidebar. The main window displays a table titled 'Reports: Kaspersky Anti-Virus' with the following columns: Status, Object, Size, and Time. The table lists numerous virus detections, each with a yellow warning icon. The objects detected are various EICAR test files located in different volume paths. The sizes of the files are mostly 73 bytes, and the detection times range from 12/3/09 12:42:15 PM to 12/3/09 12:42:17 PM.

Status	Object	Size	Time
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/WARN-Eicar9.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/Eicar4.com	68 bytes	12/3/09 12:42:14 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar9.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/WARN-Eicar6.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar6.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/WARN-Eicar8.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/Eicar10.com	68 bytes	12/3/09 12:42:13 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar2.com	73 bytes	12/3/09 12:42:16 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar5.com	73 bytes	12/3/09 12:42:16 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/Eicar2.com	68 bytes	12/3/09 12:42:14 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar8.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/Eicar8.com	68 bytes	12/3/09 12:42:14 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/Eicar9.com	68 bytes	12/3/09 12:42:14 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar3.com	73 bytes	12/3/09 12:42:16 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar7.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/Eicar7.com	68 bytes	12/3/09 12:42:14 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/WARN-Eicar3.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/Eicar6.com	68 bytes	12/3/09 12:42:14 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/Eicar5.com	68 bytes	12/3/09 12:42:14 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar4.com	73 bytes	12/3/09 12:42:16 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar1.com	73 bytes	12/3/09 12:42:15 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/SUSP-Eicar10.com	73 bytes	12/3/09 12:42:16 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/WARN-Eicar7.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/WARN-Eicar2.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/WARN-Eicar10.com	73 bytes	12/3/09 12:42:17 PM	
⚠ detected: virus EICAR-Test-Fi /Volumes/NO NAME/virus/WARN-Eicar5.com	73 bytes	12/3/09 12:42:17 PM	

Figure 50: Backup storage

CONFIGURING THE BACKUP SETTINGS

You can determine the maximum period for storing copies in backup. By default, the term for storing copies of dangerous objects in quarantine is 30 days. At the end of which the copies will be deleted. You can change the maximum term for storing copies, or remove this restriction.

► To configure the settings for storing objects in the backup, please do the following:

1. Open the application settings window (on page [15](#)) and select the **Reports** section (see figure below).

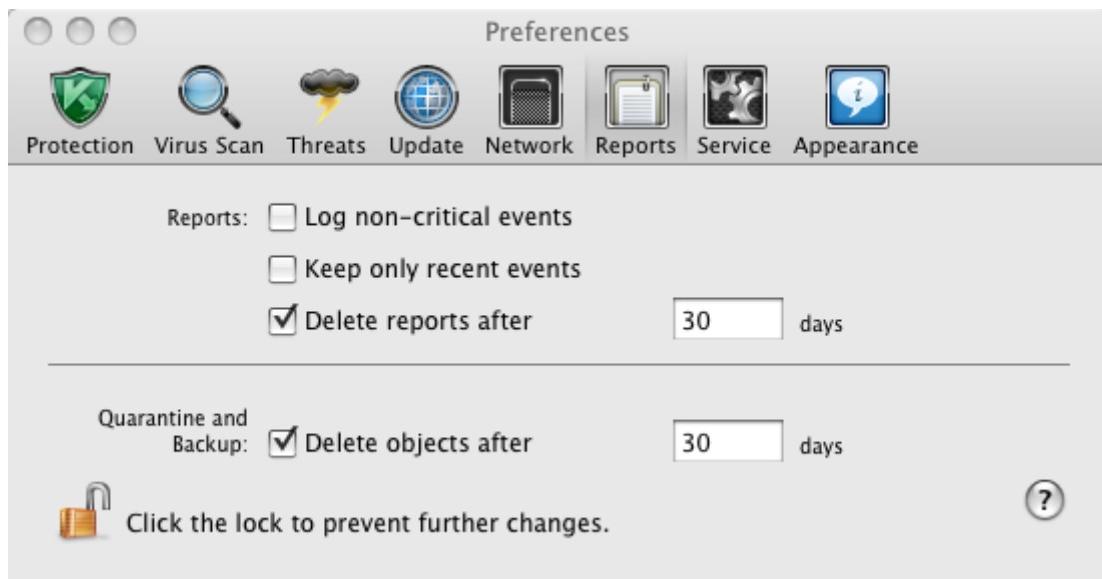


Figure 51: Application settings window. Reports

2. In the **Quarantine and Backup** check **Delete objects after** box and set the term for keeping objects in the storage after which objects in the storage will be automatically deleted. Please note that this setting value will also apply to quarantine (on page [75](#)).

REPORTS

Kaspersky Anti-Virus allows you to view detailed statistics of its results as well as for any events arising when the program runs. A detailed report will also be created for each application component: File Anti-Virus (see section "Anti-virus protection of your computer's file system" on page [30](#)), virus scan (see section "Scanning for viruses" on page [43](#)) and update (see section "Updating the application" on page [61](#)).

- ▶ To view reports,

open the main application window (on page [13](#)) and click the  button.

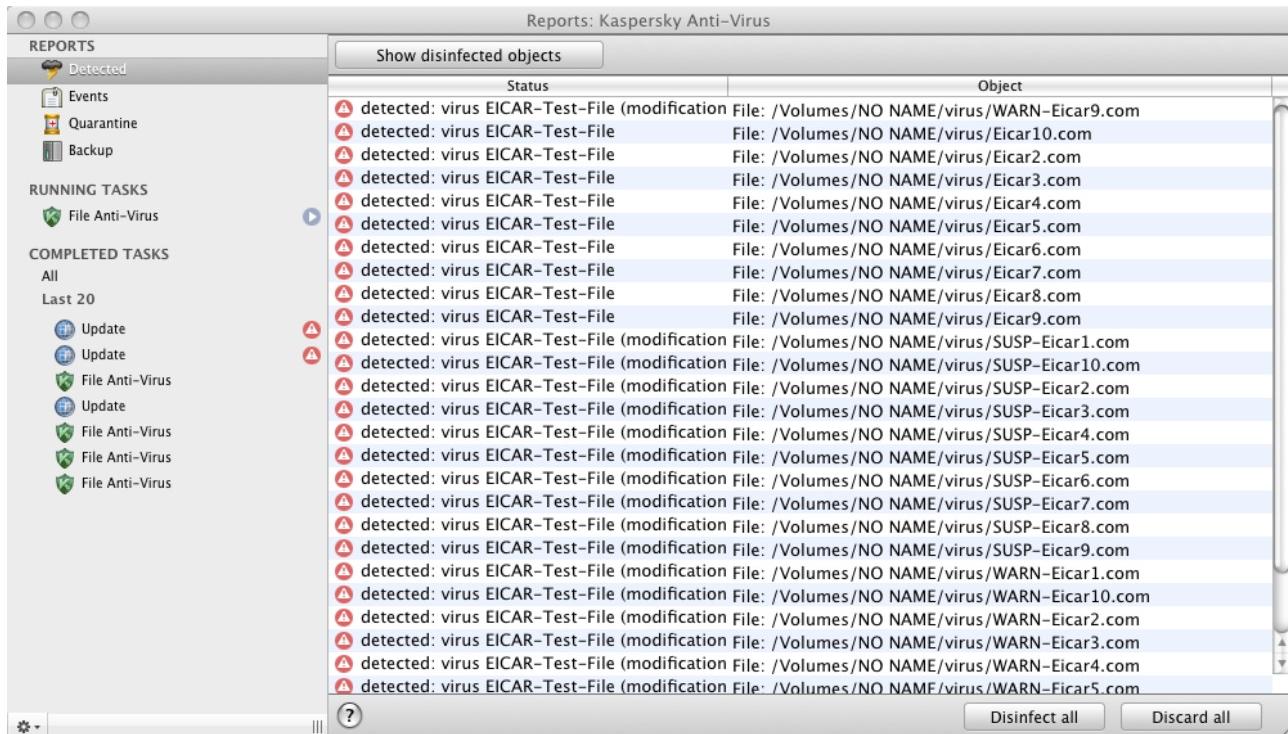


Figure 52: Kaspersky Anti-Virus report window

Report window contains the following sections:

- **Reports.** Contain statistics on dangerous objects detected, on objects placed in quarantine and backup, and the list of events logged during the application operation. All statistics are divided into subsections:
 - **Detected.** The list of all dangerous and suspicious objects detected by File Anti-Virus or Virus Scan tasks. To disinfect the dangerous objects immediately, click the **Disinfect all** button. Click the **Show disinfected objects** button for the information about disinfected objects to be displayed on the list. To remove records about detected objects from the report, click the **Clear** button. Note that all the dangerous objects you have detected will then stay on your computer.
 - **Events.** List of all events logged during operation of Kaspersky Anti-Virus. To delete information from the list, click the **Clear** button.
 - **Quarantine.** List of objects placed to Quarantine (on page [75](#)).
 - **Backup.** List of objects placed to the Backup storage (on page [78](#)).
- **Running tasks.** List of tasks being performed at the moment. If no task is active and File Anti-Virus is disabled, the list will be empty.

- **Completed tasks.** List of completed tasks. You may view all completed tasks or the last twenty ones. To clear the list, click the  button in the lower-left corner of the report window and select the **Delete all completed tasks** command.

From the report window you can manage the operation of File Anti-Virus, virus scan and update tasks: start, stop and pause them. To do this, use the buttons with the same name in the report window of the specific task.

You can export the whole report to a text file. This option can be useful if, for example, an error occurred during File Anti-Virus operation, and which you cannot fix yourself, and you require help from the Technical Support Service. In this case, you need to send a report in text format to the Support service so our specialists can study the situation in greater depth and help you as quickly as possible.

- *To export a report to a text file,*

open the report window and select the **Export** command, using the menu that opens by clicking the  button.

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The Statistics tab	84
The Preferences tab	86

CONFIGURING THE REPORT SETTINGS

- *To configure the settings for creating and saving reports:*

1. Open the application settings window (on page [15](#)) and select the **Reports** section (see figure below).

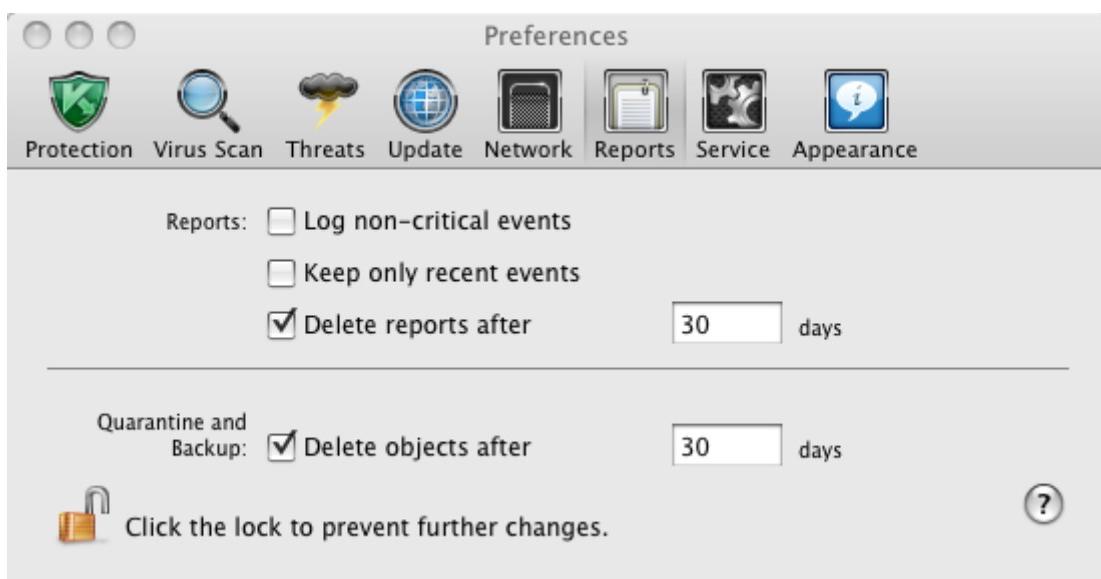


Figure 53: Application settings window. Reports

2. Carry out the necessary configuration in the **Reports** section as follows:

- Allow or block logging information events. As a rule, these events are not important for security. To detect these events in the report, check **Log non-critical events** box.
- Allow storing in the report only for the important events occurring since the last time the task was run. This saves disk space by reducing the report size. If the **Keep only recent events** box is checked, the information in the report will be updated every time you restart the task: in this case important information (such as records about detected malicious objects) will be saved, and non-critical information will be overwritten.
- Set the storage term for reports. By default, the term for storing reports is 30 days, at the end of which the copies will be deleted. You can change the maximum term for storing copies, or remove this restriction.

THE DETECTED TAB

This tab (see figure below) contains the list of dangerous objects detected by File Anti-Virus (see section "Anti-virus protection of your computer's file system" on page [30](#)) or virus scan task (see section "Scanning for viruses" on page [43](#)). The full name is indicated for each object, and also the status assigned to it by Kaspersky Anti-Virus when it was scanned or processed.

The dangerous objects can be processed by clicking the **Disinfect all** button. After each object is processed, a notification will appear on screen, which lets you decide how to proceed. If you check the **Apply to all** box in the notification window, the selected action will be applied to all objects with the same status in the list before processing starts.

Click the **Clear** button to remove a record about a detected object from the report. Note that the dangerous objects you have detected will then stay on your computer.

Status	Object
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/WARN-Eicar9.com
⚠ detected: virus EICAR-Test-File	File: /Volumes/NO NAME/virus/Eicar10.com
⚠ detected: virus EICAR-Test-File	File: /Volumes/NO NAME/virus/Eicar2.com
⚠ detected: virus EICAR-Test-File	File: /Volumes/NO NAME/virus/Eicar3.com
⚠ detected: virus EICAR-Test-File	File: /Volumes/NO NAME/virus/Eicar4.com
⚠ detected: virus EICAR-Test-File	File: /Volumes/NO NAME/virus/Eicar5.com
⚠ detected: virus EICAR-Test-File	File: /Volumes/NO NAME/virus/Eicar6.com
⚠ detected: virus EICAR-Test-File	File: /Volumes/NO NAME/virus/Eicar7.com
⚠ detected: virus EICAR-Test-File	File: /Volumes/NO NAME/virus/Eicar8.com
⚠ detected: virus EICAR-Test-File	File: /Volumes/NO NAME/virus/Eicar9.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar1.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar10.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar2.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar3.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar4.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar5.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar6.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar7.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar8.com
⚠ detected: virus EICAR-Test-File (modification	File: /Volumes/NO NAME/virus/SUSP-Eicar9.com

Status: ⚠ Dangerous objects detected!

Scanned: 1451 Start: 12/3/09 12:05:53 PM
 Detected: 29 Duration: 00:35:29
 Untreated: 29

Start Pause Stop Disinfect all Discard all

Figure 54: List of dangerous object detected

THE EVENTS TAB

The Events tab (see figure below) logs all important events which occur during File Anti-Virus's (see section "Anti-virus protection of your computer's file system" on page [30](#)) operation, including virus scan tasks (see section "Scanning for viruses" on page [43](#)) and update tasks (see section "Updating the application" on page [61](#)).

There are three main types of events:

- **Critical events** are events of a critical importance that indicate the problems in Kaspersky Anti-Virus performance or gaps in protection of your computer, for example, *virus detected, operation failure*.
- **Important events** are events that should be attended to, since they reflect important situations while the application is running, for example, *processing error*.
- **Informational events** are reference-type messages, which as a rule do not contain important information: for example, *ok, not processed*. If it is not necessary to log such events in the report, uncheck the **Log non-critical events** box in the report settings window (see section "Configuring the report settings" on page [82](#)).

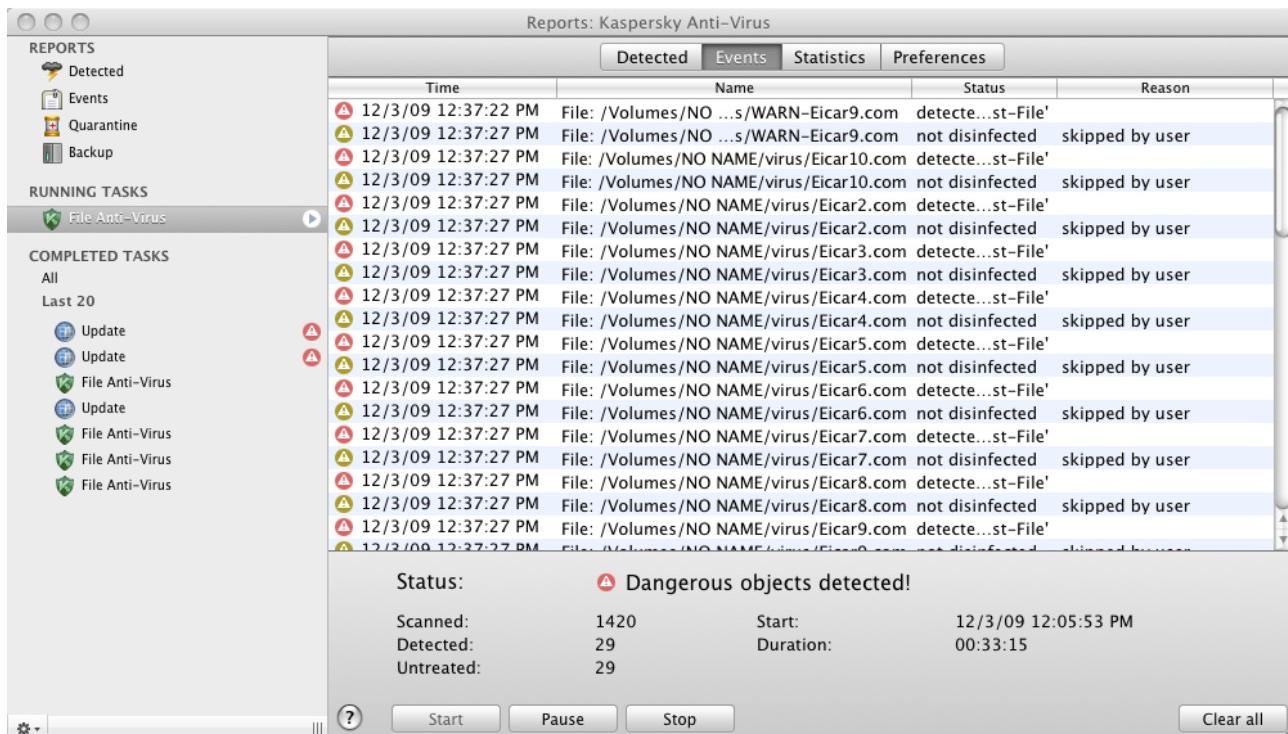


Figure 55: Events occurred in component's operation

THE STATISTICS TAB

Detailed statistics of File Anti-Virus (see section "Anti-virus protection of your computer's file system" on page [30](#)) operation or virus scan (see section "Scanning for viruses" on page [43](#)) task execution are logged on this tab (see figure below). Here you can learn:

- how many objects were scanned for viruses in this session by File Anti-Virus, or by the scan task (the number of scanned archives, compressed files, and password-protected and corrupted objects is also shown);

- how many dangerous objects were detected, and how many of them were deleted, quarantined, or not disinfected.

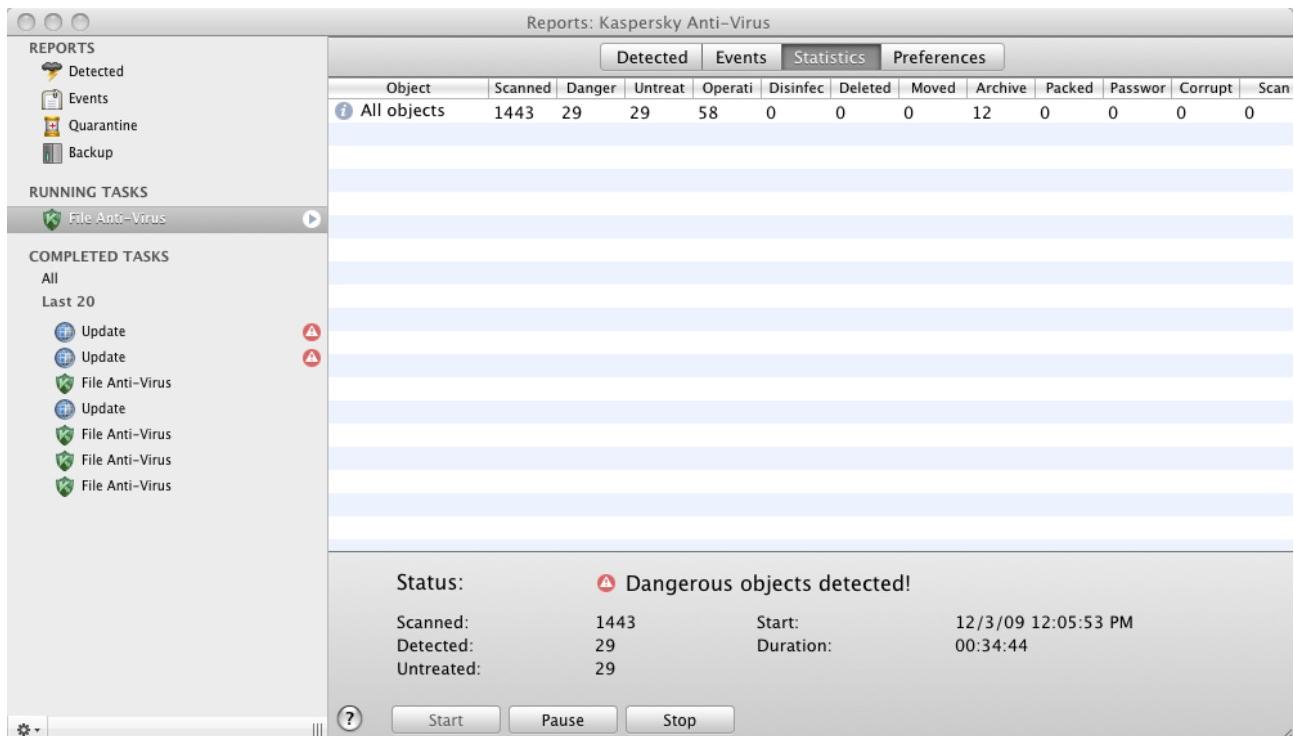


Figure 56: Component statistics

THE PREFERENCES TAB

The **Preferences** tab (see the figure below) gives a complete overview of the settings for File Anti-Virus's operation (see section "Anti-virus protection of your computer's file system" on page [30](#)), including virus scan (see section "Scanning for viruses" on page [43](#)) tasks and application updates (see section "Updating the application" on page [61](#)). The tab also shows File Anti-Virus' general security level, what level virus scans are running at, and what actions are being taken on dangerous objects. To go to settings modification, click the **Change preferences** button.

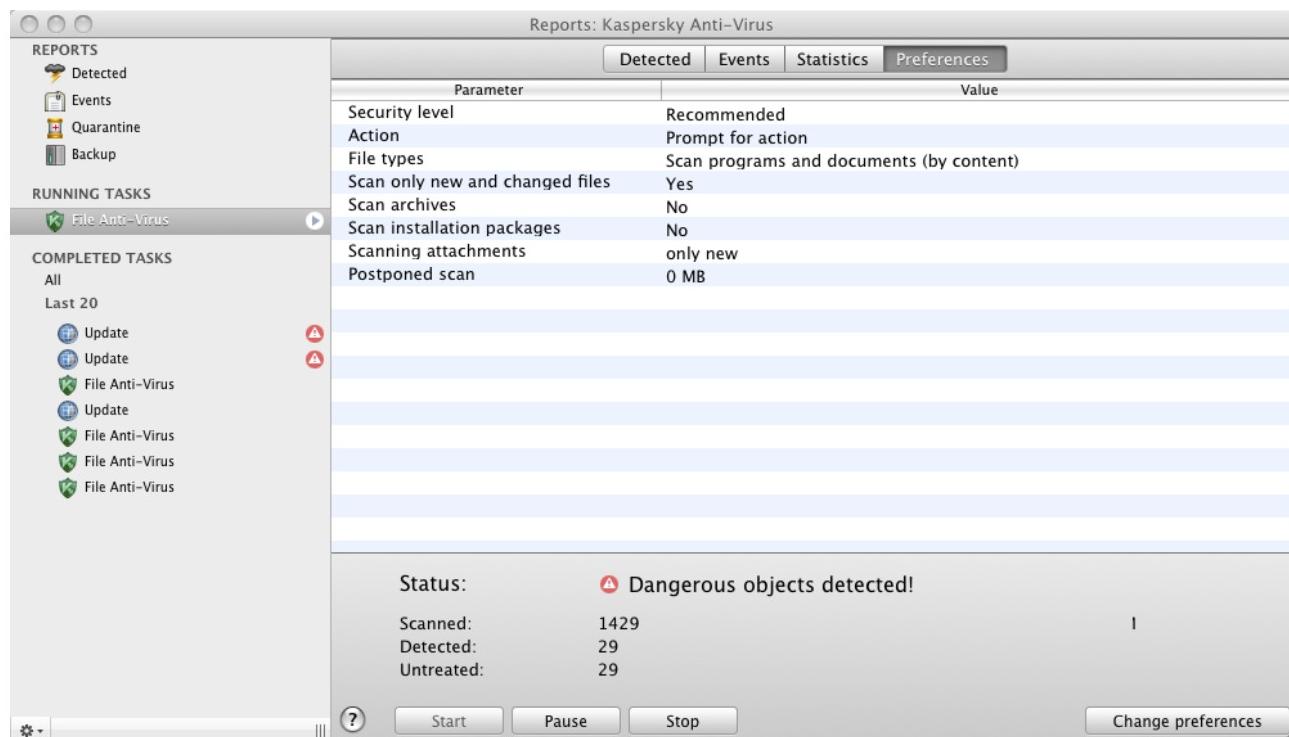


Figure 57: Component settings

NOTIFICATIONS

Various types of events occur when Kaspersky Anti-Virus runs. They may be of an informative nature or contain important information. For example, an event can inform you on the successful completion of an update or can detect an error in the operation of File Anti-Virus that should be eliminated immediately.

During Kaspersky Anti-Virus operation, the following types of events occur:

- **Critical events** are events of a critical importance, about which it is highly recommended to receive notifications, since they indicate problems with Kaspersky Anti-Virus or vulnerabilities in protection of your computer: for example, *application databases corrupted* or the license has expired.
- **Failure** – events that make Kaspersky Anti-Virus non-operable: for example, *no license key* and *no application databases*.
- **Important events** are events that should be attended to, since they reflect important situations in Kaspersky Anti-Virus operation: for example, *protection disabled* or computer has not been scanned for viruses for a long time.
- **Informational events** are reference-type messages, which as a rule do not contain important information: for example, *all dangerous objects disinfected*.

In order to keep up with the events in Kaspersky Anti-Virus operation, you can use the notification service.

Notices can be delivered in one of the following ways:

- pop-up messages on screen;
- audio message.

➡ *To use this service:*

1. Open the application settings window (on page [15](#)) and select the **Appearance** tab (see figure below).

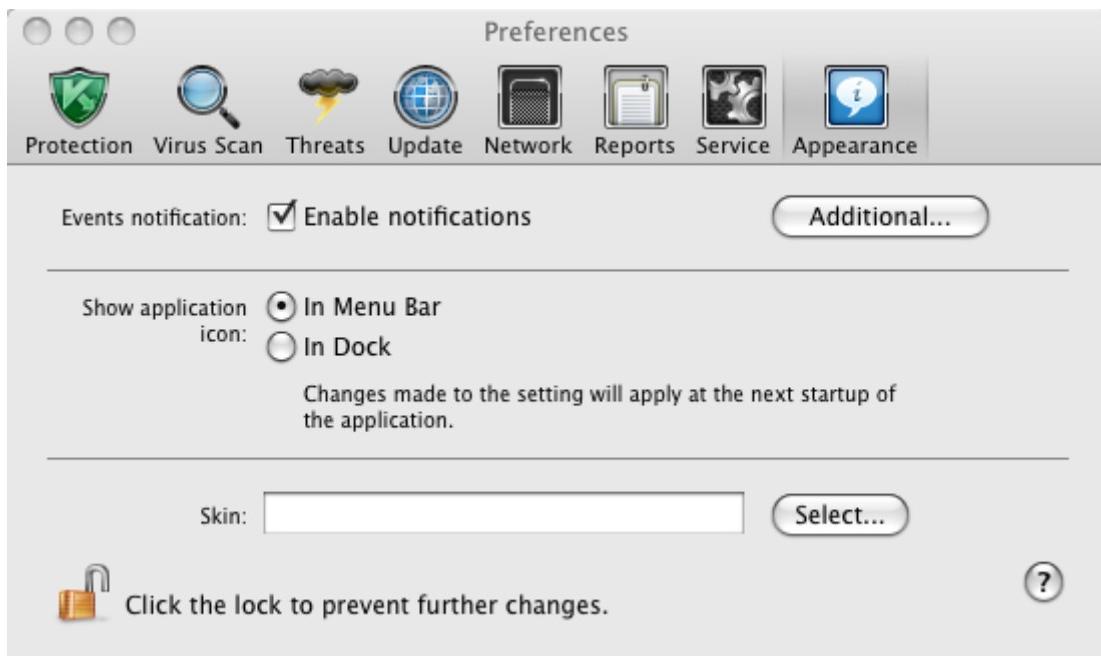


Figure 58: Application settings window. Appearance

2. Check the **Enable notifications** in the **Events notification** section and switch to advanced settings. To do this, click the **Additional** button.

In the window that opens (see the figure below), you may configure the following types of notices about events listed above:

- *Pop-up message on screen*, which contains information about an event that has occurred.

To use this type of notification, check the box in the **Balloon** field next to the event you want to be notified of.

- *Audio message*.

If you want this notice to be accompanied by a sound file, check the box in the **Sound** field next to the event name.

Event	Balloon	Sound
All notifications	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Critical notifications	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Detection of viruses, worms, Trojans, hack tools	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Detection of possibly infected object	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Disinfection impossible	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
License validity period has expired.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Databases are obsolete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Functional failure	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
License is missing, corrupted or blacklisted	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Update error	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Task can not execute	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Databases are missing or corrupted	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Important notifications	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Detection of adware, spyware, etc.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
License validity period expires soon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other important events	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Buttons at the bottom: ? (Help), Cancel, OK.

Figure 59: Configuring notifications receiving service

HELP INFORMATION

This manual section contains help information about the formats of files being scanned and allowed masks being used when configuring Kaspersky Anti-Virus settings.

IN THIS SECTION:

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Allowed exclusion masks according to the Virus Encyclopedia classification.....	92

LIST OF OBJECTS TO SCAN BY EXTENSION

If you have selected **Scan programs and documents (by extension)** in the settings of File Anti-Virus or Virus scan, objects with the following extensions will be scanned for viruses:

- com* - Microsoft Windows executable file of no larger than 64 KB.
- exe* - executable file, Microsoft Windows self-unpacking archive.
- sys* - Microsoft Windows system file.
- prg* - dBase, Clipper or Microsoft Visual FoxPro text, WAVmaker package program.
- bin* - Microsoft Windows binary file.
- bat* - Microsoft Windows batch file.
- cmd* - Microsoft Windows NT command file (as bat file for DOS), OS/2.
- dpl* - Borland Delphi packed library.
- dll* - Microsoft Windows dynamic-link library.
- scr* - Microsoft Windows screen-saver file.
- cpl* - Microsoft Windows control panel module.
- ocx* - Microsoft OLE (Object Linking and Embedding) object.
- tsp* - Microsoft Windows program that works in time-share mode.
- drv* - driver for a Microsoft Windows device.
- vxd* - driver for a Microsoft Windows virtual device.
- pif* - Microsoft Windows file with information about a program.
- Ink* - Microsoft Windows link file.
- reg* - Microsoft Windows system registry key file.
- ini* - Microsoft Windows initialization file.

cla – Java class.

vbs - Visual Basic script.

vbe – BIOS video extension.

js, jse - JavaScript source text.

htm – hypertext document.

htt - Microsoft Windows hypertext template.

hta - hypertext program for Microsoft Internet Explorer.

asp - Active Server Pages script.

chm - compiled HTML file.

pht - HTML file with embedded PHP scripts.

php - script embedded in HTML files.

wsh - Microsoft Windows Script Host file.

wsf - Microsoft Windows script.

the - Microsoft Windows 95 desktop theme file.

hlp - help file in Win Help format.

eml - Microsoft Outlook Express email message.

nws - new Microsoft Outlook Express email message.

msg - Microsoft Mail email message.

plg – email message.

mbx - extension for saved Microsoft Office Outlook message.

*doc** – Microsoft Office Word document, including: doc – Microsoft Office Word document, docx – Microsoft Office Word 2007 document supporting XML language, docm – Microsoft Office Word 2007 document supporting macros.

*dot** – Microsoft Office Word document template, including: dot – Microsoft Office Word document template, dotx – Microsoft Office Word 2007 document template, dotm – Microsoft Office Word 2007 document template supporting macros.

fpm - database program, Microsoft Visual FoxPro start file.

rtf - document in Rich Text Format.

shs - Shell Scrap Object Handler object.

dwg - AutoCAD drawing database.

msi - Microsoft Windows Installer package.

otm - VBA project for Microsoft Office Outlook.

pdf - Adobe Acrobat document.

swf - Shockwave Flash package object.

jpg, jpeg, png - file in format for storing compressed images.

emf - file in Enhanced Metafile format. Next generation of Microsoft Windows metafile.

ico - object icon file.

ov? - MS DOS executable files.

*xl** – Microsoft Office Excel documents and files, including: *xla* – Microsoft Office Excel extension, *xlc* – chart, *xlt* – document template, *xlsx* – Microsoft Office Excel 2007 workbook, *xltx* – Microsoft Office Excel 2007 workbook supporting macros, *xlsb* – Microsoft Office Excel 2007 workbook in binary (not XML) format, *xlsm* – Microsoft Office Excel 2007 template supporting macros, *xlam* – Microsoft Office Excel 2007 add-in supporting macros.

*pp** – Microsoft Office PowerPoint documents and files, including: *pps* – Microsoft Office PowerPoint slide, *ppt* – presentation, *pptx* – Microsoft Office PowerPoint 2007 presentation, *pptm* – Microsoft Office PowerPoint 2007 presentation supporting macros, *potx* – Microsoft Office PowerPoint 2007 presentation template, *potm* – Microsoft Office PowerPoint 2007 presentation template supporting macros, *ppsx* – Microsoft Office PowerPoint 2007 slide show, *ppsm* – Microsoft Office PowerPoint 2007 slide show supporting macros, *ppam* – Microsoft Office PowerPoint 2007 add-in supporting macros.

*md** - Microsoft Office Access documents and files, including: *mda* - Microsoft Office Access workgroup, *mdb* - database, etc.

sldx – Microsoft Office PowerPoint 2007 slide.

sldm – Microsoft Office PowerPoint 2007 slide supporting macros.

thmx – Microsoft Office 2007 theme.

The actual file format may differ from that indicated in the file extension.

ALLOWED FILE EXCLUSION MASKS

There are several ways to create file masks when creating file exclusion lists:

1. Masks without file paths:

- ***.zip** - all files with the .zip extension
- ***.zi?** - all files with the zi? extension where ? can represent any single character
- **test** - all files named test

2. Masks with absolute file paths:

- **/dir/* or /dir/** - all files in the /dir/ folder
- **/dir/*.zip** - all files with the .zip extension in /dir/ folder
- **/dir/*.zi?** - all files with the zi? extension in the /dir/ folder where ? can represent any single character
- **/dir/test** - only the single file /dir/test

3. Masks with relative file paths:

- **dir/* or dir/** - all files in all folders called dir/
- **dir/test** - all test files in dir/ folders

- **dir/*.zip** – all files with the zip extension in all dir/ folders
- **dir/*.zi?** - all files with the zi? extension in all dir/ folders where ? can represent any single character

The * exclusion mask can only be used if you also assign a threat type to exclude, using the nomenclature of the Virus Encyclopedia. In this case the application will not look for the specified threat in any objects. Using this mask without selecting a threat type essentially disables monitoring.

ALLOWED EXCLUSION MASKS ACCORDING TO THE VIRUS ENCYCLOPEDIA CLASSIFICATION

When adding a new threat exclusion using the Virus Encyclopedia classification, you can specify:

- full name of the threat as stated in the Virus Encyclopedia at www.viruslist.com (www.viruslist.com) (e.g., **not-a-virus:RiskWare.RemoteAdmin.RA.311** or **Flooder.Win32.Fuxx**).
- The threat name by mask. For example:
 - **not-a-virus*** - exclude legal but potentially dangerous programs from the scan, as well as joke programs.
 - ***Riskware.*** - exclude all potential dangerous programs such as riskware from the scan.
 - ***RemoteAdmin.*** - exclude all remote administration programs from the scan.

Examples of threat names may be viewed in the report window, on the Detected tab (see section "The Detected tab" on page [83](#)), in the quarantine (see section "Quarantine" on page [75](#)) and in the backup (see section "Backup" on page [78](#)), and in the windows of notification (see section "Notifications" on page [87](#)) of dangerous objects detection.

USING THIRD-PARTY CODE

Third-party code was used during Kaspersky Anti-Virus development.

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CRYPTOEx LLC

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Glenn Randers-Pehrson, glennrp@users.sourceforge.net December 3, 2004

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